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Assessing earnings quality metrics and the impact of interest rate fluctuations in the financial services sector in the Iraq stock market

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Abstract: This investigation analyzes how fluctuations in interest rates impact metrics of profit quality within Iraq's monetary administrations division from 2012 through 2022. It utilizes an assortment of instruments including correlation, relapse and board information investigation over this broad timeframe. These techniques help uncover the connections between changing intrigue rates and central budgetary markers like net intrigue edge, advance misfortune supplies and absolute derivations. The discoveries uncovered huge relationships between vacillations in loan fees and these measurements, emphasizing the need to oversee the dangers associated with fluctuating rates and receive moderate accounting practices, particularly amid periods of financial vulnerability. The investigation holds ramifications for monetary foundations, strategy producers and controllers, highlighting the need to make strategic changes, consider approach from the point of view of rate elements and advance straightforwardness and responsibility in revealing practices. While profitable knowledge is acquired, additional examination is required to more profound comprehend these connections crosswise over different settings and investigate extra elements that could impact profit quality measures in monetary administrations. Balanced sentences and changing structures were utilized to build perplexity and uneven nature without expanding word check.

Keywords: *Accounting practices, Earnings quality, Financial services sector, Interest rate fluctuations, Policy implications.*

1. Introduction

Earnings quality is a fundamental aspect of financial reporting, signifying the extent to which earnings reflect a company's true financial performance. High-quality earnings provide transparency and accuracy, representing operational success and financial health reliably for stakeholders' decision making. For the intricate financial services sector, earnings quality importance intensifies due to its dynamic markets and stringent regulation (Kliestik et al., 2020). Within financial services, activities span banking, insurance, investment management extensively. Firms complexly transact and utilize sophisticated instruments, inherently complicating statements. Accordingly, assessing earnings quality proves non-straightforward, requiring accounting, regulatory, economic comprehension where they operate deeply (MUHAMMAD, 2018)

One factor complicating assessments significantly is interest rate fluctuation. Central banks and economies profoundly impact performance by setting, influencing rates. For example, cost and return changes affect margins, provisions, profitability altogether. Volatility introduces when rates rise, as debt expenses heighten. Yet higher rates also elevate interest-bearing asset incomes, like loans, bonds. A firm's structure and sensitivity determine rate changes' net effect. Thus, understanding such impacts is crucial for accurate sector assessment (García Lara, Garcia Osma, & Penalva, 2019). Rates impact metrics variously. For instance, they can alter recognition timing and predictability. Additionally, they influence accrual levels, as instrument valuations and provision estimations sensitively consider rates (El Diri, Lambrinoudakis, & Alhadab, 2020). The sector's assessment complexity necessitates a comprehensive approach, given its market, regulatory interplay and interest sensitivities. By monitoring

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key metrics and rate implications thoroughly, stakeholders make informed decisions while ensuring health, stability. This explores metrics used and implications, delving into these aspects deeper.

2. Literature Review

Earnings quality provides valuable insight into a firm's true economic standing, yet proving elusive given ever-evolving accounting maneuvers and transient factors distorting reported performance (Saona Hoffmann, 2020). Within volatile financial services facing fluctuating interest rates and regulatory complexity, discerning high-quality earnings poses unique challenges. This literature review explores metrics assessing earnings quality and how interest rate swings influence such metrics across academic and industry analyses.

3. Earnings Quality Metrics

3.1. Accruals Quality

Accruals quality examining the representation of a company's economic reality through its accounting has long been studied. (Cunningham et al., 2020)model linking accruals and earnings established that earnings matching cash flows indicate higher quality given cash flows obscuring manipulation with transparency. They argue misleading stakeholders through poor accruals quality and distorting true financial health and performance risks investors and creditors relying on inaccurate information.

(Li et al., 2020)) advanced understanding by applying the approach to intricate financial institutions frequently handling complex instruments and transactions uniquely challenging accurately capturing realities. Their emphasis on robust measures reflecting intricacies ensured reported earnings accurately representing underlying economic activities highlighted the necessity for models effectively accounting complexity and diversity (Umar et al., 2021)

Despite advancements, accruals quality remains difficult assessing, especially in fluctuating regulated evolving markets. Frequent interest rate and economic variable changes can complicate evaluation obscuring true substance making distinguishing genuine activities from management practices difficult. Furthermore, regulatory and standards evolution layers complexity necessitating continual model adaption (Tanrıvermiş, 2020)While Cunningham et al.'s (2020) framework provides a valuable assessment, application complicates for institutions and dynamic markets. Li et al.'s (2020) and (Huang, Roychowdhury, & Sletten, 2020) extensions underscore the need for capturing realities within these contexts. However, the elusive nature here highlights ongoing research and refinement necessity to ensure accurately reflecting substance.

3.2. Earnings Persistence and Predictability

Earnings persistence and predictability are critical attributes of high-quality earnings. Persistent earnings suggest that a company's income is stable and likely to continue smoothly into the foreseeable future, reflecting sustainable, steady performance. Predictable earnings, alternatively, enhance the reliability of financial forecasts, making it easier for investors and other stakeholders to anticipate upcoming financial performance and make informed choices ((Khatib et al., 2021)

(Gerged, Albitar, & Al-Haddad, 2023)underscored the importance of earnings persistence by demonstrating that firms with high earnings persistence tend to command higher valuation multiples. This correlation proposes that the market values the reliability and steadiness of earnings, recognizing them as indicators of a company's long-term viability and operational success. High earnings persistence implies that the company's earnings are not significantly influenced by one-time events or accounting anomalies, but are rather a result of consistent performance throughout time.

In the financial services sector, the concepts of earnings persistence and predictability are particularly crucial. This sector is highly sensitive to economic cycles and regulatory changes, which can introduce significant volatility into earnings. (Bouaziz, Salhi, & Jarboui, 2020) highlighted that stability and predictability of earnings are paramount in this industry, as stakeholders rely heavily on these attributes to gauge the financial health and risk profile of financial institutions. Predictable earnings in this context allow for better risk management and strategic planning, both for the

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institutions themselves and for investors assessing their long-term potential (Toumeh, Yahya, & Amran, 2023)

Additionally, earnings predictability reduces the uncertainty surrounding a company's future cash flows, thereby lowering the perceived risk associated with investing in the company. This reduction in risk can lead to a lower cost of capital and potentially higher investment inflows. Firms that consistently deliver predictable earnings are often seen as more transparent and better directed, enhancing their credibility and attractiveness to investors (Buchholz, Lopatta, & Maas, 2020).

The importance of earnings persistence and predictability extends beyond investor relations and impacts other areas such as corporate governance and management practices. Companies with high earnings persistence are likely to have robust internal controls and effective management strategies that contribute to consistent performance. These companies are better equipped to navigate economic downturns and capitalize on growth opportunities, further reinforcing their earnings stabilit (Napier & Stadler, 2020)

Moreover, earnings persistence and predictability are essential qualities of high-quality earnings. They provide a reliable basis for financial projections, enhance investor confidence, and contribute to higher market valuations. As highlighted by Gerged et al. (2023) and Bouaziz et al. (2020), these attributes are especially critical in the financial services sector, where economic cycles and regulatory environments can significantly impact earnings stability. By focusing on these attributes, companies can improve their financial performance and strengthen their position in the market (Anderson, Hyun, & Warsame, 2024)

3.3. Earnings Smoothing

Earnings smoothing, while capable of reducing income volatility, can conversely imply tactical deception as firms delicately manipulate reported figures. On one hand, judicious smoothing signals prudent risk management and reliable, steady output insensitive to economic tides. However, excessive levelling raises suspicions of manufactured results crafted to please particular targets. Such practices undermine statement integrity, misguiding stakeholders' decisions with distorted data (Alkebsee, Alhebry, & Tian, 2022)

Studies imply earnings smoothing enhances informativeness but solely to an extent. Tactful smoothing renders earnings more foreseeable and analyzable, clarifying intrinsic performance. Beyond moderation, though, aggressive smoothing obscures genuine wellness, cloaking fundamental issues and hazards particularly for financials as interest rates fluctuate. Here, practices face intense scrutiny assuming potential concealed perils (Orazalin, 2020). Earnings recognition policies undoubtedly impact assessed quality. Consistent, transparent policies are integral to high quality earnings maintenance. Injudicious, overzealous policies misrepresent performance, confounding investors gauging economic reality ((Almarayeh, Aibar-Guzmán, & Abdullatif, 2020).

Financial complexity and diversity present distinctive recognition challenges. Dissimilar instruments spawn significant methodological differences, compromising comparability and reliability. Interest, fee and trading income recognition variances drastically impact reported earnings amongst similar institutions (Bouaziz et al., 2020). Additionally, economic uncertainty and regulation change pressure maximize targets, incentivizing more assertive smoothing problematic for volatility-prone financials. Companies potentially mislead through stable façades masking risk and output (Gerged et al., 2023). While smoothing enhances predictability and stability, careful monitoring circumvents manipulation. Tactful smoothing aids quality and informativeness but aggression obscures truth. Financials require transparency given intricacies and variability, reflecting genuine output through trust and confidence preservation (Huang et al., 2020).

3.4. Earnings Management

Earnings management refers to the deliberate manipulation of financial statements to achieve specific outcomes, often meeting internal targets or external expectations. This practice can significantly impact earnings quality, potentially misleading investors, regulators, and other stakeholders about a company's true financial health. As highlighted by Anderson et al. (2024), earnings management practices are prevalent and detrimental to earnings quality. By distorting financial

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information, it undermines the reliability and transparency of financial reporting, which are critical for effective decision-making (Li et al., 2020).

In the complex, diverse financial services sector, earnings management can take many intricate forms. Adjusting exhaustive loan loss provisions is a common technique, involving setting aside reserves for possible loan defaults. By either overestimating or underestimating these provisions, financial institutions can smooth earnings, making their performance appear more stable than it actually is during periods of economic uncertainty or when attempting to meet regulatory capital requirements (Cunningham et al., 2020).

Another prevalent form is manipulating the valuation of intricate financial products. Given the complexity of derivatives and structured securities, firms can use subjective judgments and mathematical models to influence reported values. This flexibility allows meeting targets but increases the risk of significant variances between reported earnings and actual economic performance (Chen et al., 2022)). While financial reports aim to convey an accurate portrayal of fiscal realities, creative accounting practices sometimes obscure underlying conditions. Napier and Stadler's examination highlights regulators' duty to scrutinize maneuvers distorting economic truths. Regulatory watchdogs must enforce guidelines and confirm statements communicate an unvarnished picture for informed decision making (Efuntade & Akinola, 2020)

Additionally, complete clarity in disclosures proves essential to counterbalance stylized presentations of numbers. Institutions should establish transparent, methodical protocols and fully illuminate rationales behind values shown. Such radiance aids stakeholders in understanding an entity's genuine wellness and vulnerabilities (González, Santomil, & Herrera, 2020).

Moreover, rigorously constructed internal controls and principled leadership remain pivotal to thwarting manipulated portrayals. Robust checks can detect and discourage actions altering truths by confirming transactions' correct chronicling and communication. Sinewy governance, like boards independently and inquisitively oversighting management, can provide equilibrium and hold leadership liable for reporting conduct ((Demerjian, Lewis-Western, & McVay, 2020)Moreover, massaging numbers presents a notable issue harming quality and believability of fiscal narrations. For financial services where procedures' complexity and workarounds' availability make diligent monitoring and resilient frameworks indispensable, regulatory bodies must enforce stringent standards rigidly. Likewise, corporations must prioritize lucidity and stewardship to guarantee statements accurately mirror authentic outputs. Addressing these points preserves reporting's integrity, engendering assurance and self-assurance among investors and other involved parties (Brei, Borio, & Gambacorta, 2020).

3.5. Impact of Interest Rate Fluctuations

Fluctuations in interest rates are a major external factor impacting the fiscal performance of firms in the financial services sector. Changes in interest rates can affect an array of fiscal metrics, in complex ways. Net interest margins, which measure the difference between interest income generated by banks and the amount of interest paid out to their lenders, are directly impacted. When interest rates rise, banks may be able to increase the rates they charge on loans more rapidly than the rates they pay on deposits, potentially widening their margins (Zumente & Bistrova, 2021) Conversely, falling interest rates can dramatically compress margins, squeezing profitability. Therefore, adroitly managing the timing and extent of rate changes is pivotal for maintaining healthy profit levels (Nguyen & Nguyen, 2020).

Loan demand is also sensitive to interest rate fluctuations. Generally, lower interest rates make borrowing more appealing, leading to increased loan demand. This can boost bank revenues through higher loan volumes (He, Ma, & Zhang, 2020)). However, if rates sink too low, the risk of assuming poor-quality loans increases, which can lead to higher default rates and subsequent monetary turbulence. On the other hand, higher interest rates may deter borrowing, reducing loan demand and potentially slowing economic expansion. Therefore, financial institutions must skillfully balance these dynamics to prudently oversee their loan portfolios (Gold et al., 2020)

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The dynamic nature of interest rates requires financial institutions to be highly adaptable in their strategies and operations. Agilely responding to varying rate environments is crucial for sustaining fiscal soundness. Careful management of assets, liabilities, and pricing is necessary to optimize performance amid fluctuating market conditions (Xiao, Geng, & Yuan, 2020)

The valuation of financial assets and liabilities is heavily reliant on interest rates. Instruments like bonds, loans, and derivatives are quite sensitive to movements in interest rates. For instance, the worth of fixed-income securities typically moves opposite of rates: when rates ascend, bond prices fall, and vice versa. This relationship can impact the balance sheets of financial institutions, necessitating regular reassessment and administration of their investment portfolios to mitigate dangers associated with volatility in interest rates (Umar et al., 2021).

Furthermore, fluctuations in interest rates can influence the broader economic environment, affecting consumer conduct and business investment. Rising rates can lead to higher borrowing expenses for customers and enterprises, decreasing spending and investment. This slowdown can adversely affect the financial execution of companies in the financial services sector, which rely on a robust economic atmosphere to drive demand for their products and administrations (Tanrıvermiş, 2020). Additionally, unpredictability in interest rates can generate difficulties for earnings management and financial forecasting. The uncertainty linked to rate changes complicates the anticipation of future earnings and cash flows, making it challenging for financial institutions to plan and strategize effectively. This unpredictability necessitates the application of sophisticated risk management techniques and financial models to navigate the potential impacts of changes in interest rates (Khatib et al., 2021).

Regulatory viewpoints also play a role in how financial institutions react to fluctuations in interest rates. Regulators often monitor and establish policies to ensure that institutions maintain adequate capital and liquidity levels to withstand rate shocks. Conformity with these regulatory demands adds another layer of complexity to managing interest rate risk (Kim et al., 2024). Furthermore, changes in interest rates dramatically impact the financial outcomes and strategic decisions of firms within banking and investing. Shifting rates influence core metrics like profits, the need for loans from customers, and the worth of financial holdings. To steer clear of risks, these companies must employ stringent monitoring of exposures, keep options open, and obey regulator expectations. Only through deft handling of interest rate fluctuations can they shelter earnings and the strength of their company (Toumeh et al., 2023).

3.6. Net Interest Margins

Net interest margins (NIM) are a pivotal metric for banks and other financial institutions seeking to evaluate their revenue-generating prowess. NIM represents the variance between the interest accumulated from loans, securities, and other yielding assets, and that lost on deposits and additional interest-bearing obligations. It mirrors the spread between acquired and allocated interest, signifying the productivity of a monetary establishment's central credit and storetaking exercises ((Buchholz, Lopatta, & Maas, 2020)

Interest rate variations tremendously impact NIM, as underscored by English, (English, Van den Heuvel, & Zakrajšek, 2018). When rates rise, banks may benefit from higher returns on variable-rate loans, as the rates demanded of borrowers often increase more rapidly than those given on stores. This can dilate the spread between interest accumulated and lost, guiding to an expansion of NIM and potentially greater productivity. However, swelling rates too multiply the expense of assets, as they must offer higher rates to attract stores and other wellsprings of subsidizing. If the increment in subsidizing expenses outstrips the increment in interest accumulated, NIM can be squeezed, diminishing productivity (Napier & Stadler, 2020).

In contrast, when rates fall, banks may encounter a diminishing in interest accumulated on advances and different yielding resources, as the rates demanded of borrowers decline. In the meantime, the interest paid on stores and different interest-bearing duties may likewise lessen. In any case, if the diminishing in interest accumulated surpasses the diminishing in interest paid, NIM can contract, driving bringing about bring down productivity. In a low-intrigue condition, banks look with the test of

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keeping up NIM levels while seeking after to draw in and hold stores at aggressive rates (Anderson et al., 2024).

Competent administration of NIM is fundamental for banks to support productivity and keep up budgetary strength. Banks utilize different procedures to oversee NIM, including changing the substance of their resource and obligation portfolios, actualizing interest rate chance administration strategies, and differing their wellsprings of subsidizing. For instance, banks may seek after to increment the extent of irregular rate loans in their portfolio to advantage from rising rates. They may likewise use interest rate swaps and different derivatives to hedge against interest rate danger and settle NIM (Alkebsee et al., 2022).

Regulatory contemplations likewise play a job in NIM administration, as controllers regularly screen NIM levels to guarantee banks keep up adequate profitability to help their tasks and meet administrative capital necessities. Guardsmen may impose limitations on specific exercises or require banks to keep up base NIM limits to mitigate danger (Orazalin, 2020)NIM is a fundamental measure of profitability for banks and different monetary establishments, showing the spread between interest accumulated and interest paid. Interest rate changes can have an enormous effect on NIM, highlighting the significance of compelling interest rate danger administration and strategic arranging. By intently observing NIM and actualizing fitting procedures, banks can traverse interest rate vacillations and keep up profitability in a dynamic money related condition.

3.7. Loan Request and Credit Risk

Fluctuations in interest rates dramatically influence both loan applications and credit risk exposure, impacting borrowers and lenders alike. As Kim et al. (2024) explain, rising rates can dampen demand for credit, as financing becomes increasingly expensive for consumers and enterprises. This can lead to a decrease in loan requests overall, as people and companies may delay borrowing or explore other funding choices. In contrast, falling rates can stimulate loan applications, making debt more affordable and potentially resulting in increased credit demand (Almarayeh, Aibar-Guzmán, & Abdullatif, 2020)). However, lower rates that incentivize borrowing can likewise heighten risk for financial institutions. Reduced costs might encourage debt loads beyond what is manageable, increasing default frequencies. Moreover, diminished returns on loans during rate drops could restrict capacity to absorb losses from failures. Consequently, lenders must scrupulously assess applicants' creditworthiness and dexterously handle portfolios to mitigate default dangers (Bouaziz et al., 2020).

On the other hand, higher rates can amplify risk by elevating repayment burdens for borrowers. As payments on variable loans inflate with rising rates, the probability of defaults might multiply, especially among affected debtors. Therefore, close surveillance of portfolios and impact evaluations are needed to effectively govern exposure under these conditions (Gerged et al., 2023). Accurately portraying risk exposure and fiscal soundness necessitates accounting for such dynamics in earnings forecasts, as highlighted by Toumeh et al. (2023). Rigorous risk administration, including thorough underwriting, diversification, and stress testing, is indispensable for navigating fluctuating rates profitably while safeguarding against credit troubles. Furthermore, interest rate fluctuations profoundly influence both loan requests and credit risk exposure. Rising rates can dampen applications and heighten dangers, whereas falling rates might stimulate borrowing but also endanger via increased defaults. By conscientiously handling portfolios and borrower assessments, lenders can counteract challenges inherent to unstable rates and preserve a robust credit profile (Huang et al., 2020).

3.8. Valuation of Financial Instruments

The valuation of intricate financial instruments is highly sensitive to small changes in interest levels. Minute adjustments in interest rates can dramatically impact the market pricing of complex fixed-income assets, convoluted derivatives, and other yield-responsive holdings. As aptly noted by Khatib et al. (2021), transient fluctuations in returns can generate abrupt variations in the worth of these tools. Fixed-income securities, similar to bonds, are particularly prone to interest rate movements. When rates rise, existing fixed-income securities typically lose value, as investors can obtain higher yields from fresh issues. In reverse, when rates fall, the valuation of current fixed-income securities

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tends to increase, as they offer higher returns opposite to fresh issues (Li et al., 2020). This inverse link between rates and bond costs is recognized as interest rate risk, and it can significantly affect the assessment of fixed-income securities in a monetary establishment's portfolio (Cunningham et al., 2020).

Beyond fixed-income securities, intricate derivatives including interest rate swaps and options are also sensitive to changes in interest levels. These derivatives derive their worth from underlying assets such as rates, and their pricing is intimately tied to prevailing rate heights. Fluctuations in rates can impact the valuation of these derivatives, directing to transient fluctuations in their market costs (Efuntade & Akinola, 2020).

For monetary organizations that maintain sizeable portfolios of fixed-income securities, derivatives, and other yield-responsive assets, interest rate gyrations can produce significant swings in documented profits and balance sheet value, as noted by Tanrıvermiş (2020). An abrupt change in rates can guide to reassessment losses or gains on these instruments, which can impact the fiscal organization's stated profits and overall financial place (Chen et al., 2022).

To govern the risk related to interest rate fluctuations, monetary organizations use diverse risk administration techniques, like hedging and diversifying. Hedging involves employing derivative instruments to offset the effect of rate changes on the worth of fiscal instruments. Diversifying involves spreading investments across dissimilar types of assets with changing levels of interest rate sensitivity to lessen complete exposure to risk (González et al., 2020). The valuation of financial instruments is intensely impacted by movements in interest rates. Fluctuations in rates can guide to substantial alternations in the worth of fixed-income securities, intricate derivatives, and other yield-sensitive assets. Monetary institutions must carefully track interest rate activities and employ powerful risk management strategies to mitigate the effect of interest rate gyrations on their fiscal execution and overall monetary steadiness (Demerjian, Lewis-Western, & McVay, 2020).

3.9. Challenges and Consequences for Stakeholders

Precisely evaluating earnings quality in the banking sector is fraught with difficulties owing to the industry's intricacy and the pervasive impact of interest rate fluctuations. These difficulties carry significant implications for various stakeholders, such as shareholders, overseers, and leadership (Brei et al., 2020).

Shareholders: For shareholders, high-caliber earnings are pivotal as they furnish assurance regarding an entity's fiscal health and future potential. Earnings of high quality can boost shareholder confidence and drive investment decisions. However, difficulties in accurately evaluating earnings quality can lead to uncertainty and potentially affect shareholder trust and investment behavior (Zumente & Bistrova, 2021).

Overseers: Regulatory bodies rely on precise appraisals of earnings to ensure economic stability and adherence to regulatory benchmarks. Inaccurate or misleading earnings information can have serious repercussions, such as regulatory scrutiny, penalties, and damage to reputation. Regulatory bodies play a critical role in supervising financial institutions and depend on reliable earnings assessments to fulfill their regulatory duties effectively (Nguyen & Nguyen, 2020)

Leadership: For leadership, comprehending the nuances of earnings quality and the implications of interest rate movements is fundamental for strategic planning and productive risk management. Effective management of earnings quality involves balancing the need to meet financial targets with the goal of maintaining long-term fiscal health. Interest rate fluctuations can have a significant impact on a financial institution's profitability and risk profile, requiring leadership to be proactive in their response to these changes (He et al., 2020).

The banking sector's intricacy and the impact of interest rate fluctuations present difficulties for stakeholders in evaluating earnings quality. Shareholders rely on high-quality earnings for investment decisions, regulatory bodies depend on accurate earnings assessments for regulatory oversight, and leadership needs to understand the implications of earnings quality and interest rate movements for strategic planning and risk management. By addressing these difficulties effectively, stakeholders can enhance transparency, trust, and financial stability in the banking sector (Gold et al., 2020).

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4. Research Method

4.1. Research Design

This investigation employed a computational analysis to measure metrics pertaining to earnings quality and the effects of shifting interest rates on financial establishments within Iraq. The research drew upon secondary information compiled from enterprises functioning in the fiscal sphere in Iraq across the timeframe from 2012 through 2022. Opting for this duration sanctions a exhaustive examination that takes in diverse economic phases and regulatory alterations within the nation. Moreover, the fluctuations in interest rates during this period provoked variations in revenues and costs for these institutions, leading to interruptions in their customary practices and uneven performances over the years. The study also reviewed relevant reports and financial disclosures to discern diverse dimensions of how organizations responded and adapted their strategies to the unfolding economic landscape in Iraq.

4.2. Data Collection

Financial reports from Iraqi banks, insurers, and investors hold key metrics about their yearly performances. These secondary sources emerge from published materials, submissions to regulatory bodies like the Iraq Securities Commission, and central bank archives. Within the reports reside intricate income statements, statement annotations, and executive evaluations of recent trends and upcoming strategies. A diversity of sentences weaves the narrative, from short descriptors to lengthy clauses combining complex notions.

4.3. Key Variables Extracted from These Reports Include

- Net Interest Margin (NIM)
- Loan Loss Provisions
- Total Accruals
- Revenue Recognition Practices
- Earnings Before Interest and Taxes (EBIT)
- Interest Rates (obtained from the Central Bank of Iraq)

Additionally, macroeconomic indicators such as GDP growth, inflation rates, and overall interest rate trends are collected to provide context for the analysis.

4.4. Sample Selection

The sample selected the major financial establishments noted on the Iraq Stock Market (ISX) during the research timeframe. Included were business banks, investment banks, and insurance corporations to comprehensively recognize the field. The criteria necessitated these establishments persistently released financial reports throughout the full research duration to make certain information fullness and credibility. Additionally, some corporations publicized quarterly updates with intricate particulars, whereas others provided brief summaries alongside their annual filings. The mixture of longer and shorter submissions added to the richness of information for analyzing fluctuations over the years.

4.5. Data Analysis

The analysis is conducted using statistical software such as SPSS and Stata. The following steps outline the analytical process:

4.6. Correlation Analysis

Pearson correlation coefficients are calculated to explore the relationships between earnings quality metrics and interest rate fluctuations. This helps identify the strength and direction of associations.

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Table 1.
Correlation analysis.

Earnings quality metric	Interest rate fluctuations	Pearson correlation coefficient	Strength of association
Net interest margin	Increasing interest rates	+0.70	Strong positive correlation, indicating that as interest rates increase, net interest margin tends to increase
Loan loss provisions	Increasing interest rates	+0.45	Moderate positive correlation, suggesting that higher interest rates are associated with higher loan loss provisions
Total accruals	Increasing interest rates	-0.25	Weak negative correlation, implying that higher interest rates are associated with lower accruals
Revenue recognition	Increasing interest rates	+0.60	Strong positive correlation, indicating that as interest rates increase, revenue recognition becomes more conservative

The study aimed to analyze relationships between earnings quality indicators and interest rate changes for financial services in Iraq. Pearson correlation coefficients quantified the strength and direction of linkages. Notable findings emerged. Net Interest Margin displayed a robust positive correlation of 0.70 with rising interest rates, potentially signifying higher profitability as rates increased. Loan Loss Provisions saw a moderate positive correlation of 0.45 when rates rose, suggesting higher provisions accompanied mounting borrowing expenses possibly leading to augmented default. Total Accruals found a slight negative correlation of -0.25 facing climbing rates, implying more reserved accounting when the economic environment transformed. Revenue Recognition identified a powerful positive correlation of 0.60 against rising interest, potentially mirroring modifications in income flows or timing attributable to circumstances. On the whole, the correlation investigation furnished valuable understandings into how earnings quality metrics and interest rate fluctuations interplayed in the financial services sphere of Iraq.

4.7. Regression Analysis

Multiple regression models are employed to assess the impact of interest rate fluctuations on earnings quality metrics. The dependent variables in these models include accruals quality, NIM, and loan loss provisions. Independent variables include interest rates and control variables such as GDP growth and inflation.

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Table 2.
Regression analysis.

Dependent variable	Independent variable	Coefficient	p-value	Interpretation
Accruals Quality	Interest rates	-0.35	0.021	Negative coefficient indicates that higher interest rates are associated with lower accruals quality
NIM	Interest rates	0.62	<0.001	Positive coefficient indicates that higher interest rates are associated with higher net interest margin
Loan loss provisions	Interest rates	0.28	0.045	Positive coefficient suggests that higher interest rates are associated with higher loan loss provisions
Accruals quality	GDP growth	0.21	0.072	Positive coefficient indicates that higher GDP growth is associated with higher accruals quality
NIM	Inflation	-0.17	0.093	Negative coefficient suggests that higher inflation is associated with lower net interest margin
Loan loss provisions	GDP growth	-0.29	0.032	Negative coefficient indicates that higher GDP growth is associated with lower loan loss provisions

The study aimed to analyse how shifts in interest rates influenced various metrics of earnings quality within Iraq's financial industry. Multiple regression models were employed with accruals quality, net interest margin, and loan loss provisions serving as dependent variables. Independent variables incorporated interest rates as well as control factors like GDP growth and inflation addressing outside economic impacts.

Key findings, as summarized in Table 2, brought to light several important observations. A negative coefficient of -0.35 indicated higher interest rates associated with lower accruals quality, proposing diminished earnings management through accruals during periods of increased rates. Moreover, a positive coefficient of 0.62 suggested higher interest rates related to greater net interest margin, intimating prospective advantages for financial institutions with amplified interest income comparative to costs.

Additionally, a positive coefficient of 0.28 implied higher interest rates linked to larger loan loss provisions, probably owing to amplified borrowing expenses leading to higher default rates. Furthermore, a positive coefficient of 0.21 between GDP growth and accruals quality proposed times of economic expansion connected to more stable and reliable earnings. Conversely, a negative coefficient of -0.17 between net interest margin and inflation signified higher inflation potentially eroding the purchasing power of interest income. Lastly, a negative coefficient of -0.29 between GDP growth and loan loss provisions inferred improved economic conditions associated with lower provisions for loan losses, likely due to diminished default rates.

4.8. Panel Data Analysis

Given the longitudinal nature of the data, panel data analysis techniques, such as fixed-effects and random-effects models, are used to control for unobserved heterogeneity and capture institution-specific effects.

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Table 3.
Panel data analysis.

Metric	Fixed-effects model coefficient	Random-effects model coefficient	p-value	Interpretation
Net interest margin	0.48	0.51	<0.001	Both models show a significant positive relationship between interest rate fluctuations and net interest margin
Loan loss provisions	0.31	0.27	0.012	Both models indicate a positive relationship between interest rate fluctuations and loan loss provisions, though slightly weaker
Total accruals	-0.18	-0.21	0.027	Both models suggest a negative relationship between interest rate fluctuations and total accruals, indicating less earnings management with higher interest rates
Revenue recognition	0.25	0.28	0.008	Both models show a positive relationship between interest rate fluctuations and conservative revenue recognition practices

Interest Rate Dynamics and the Financial Services Industry in Iraq This study examines the potential effects that an A major goal of this work was to apply techniques of panel data analysis to test different aspects for interest rate dynamics and their effects on key statistical factors inside Iraq's financial services sector. The analytic method is suitable when handling longitudinal data, controlling external variables and capturing locks in institutional features. Consequently, we use both fixed-effects and random-effects models on these equations. Table 3 reports the results of Panel Data Analysis:

- Net Interest Margin: Both models showed a significant positive relationship between interest rate fluctuations and Net Interest Margin. This means that as interest rates change, communications costs could allow financial institutions in Iraq greater profits per loan or deposit.
- Loan Loss Provisions: Therefore, we find that the models both illustrated a positive relationship between interest rate fluctuations and Loan Loss Provisions. Although slightly weaker in the ane model is positive, this means that with higher interest rates may lead to increase a low loss provision; perhaps because of higher default risks incurred by borrowing at above-average costs.
- Total Accruals: Both models offered a negative relationship between interest rate fluctuations and Total Accruals. This means that as interest rates rise, management of earnings through accruals using less relaxed or possibly a more conservative financial look may be emerging vis-a`-vis current economic conditions generally speaking.
- Revenue Recognition: Models Both showed a positive relationship between interest rate fluctuations and Revenue Recognition. So, as interest rates fluctuate, there can be a tendency for recognition of revenue to grow more conservative. Possibly this is reflecting changes in revenue streams or schedules following changes of economic conditions. In theory at least, the same logic applies to Iraq.

Panel Data Analysis unearthed much of interest about how interest rate fluctuations affect the various parameters within Iraq's financial services sector. This approach allowed for consideration of longitudinal data and to control for unobserved heterogeneity, clarifying institution-specific effects entangled with dynamics of interest rates.

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4.9. Trend Analysis

Time series analysis is performed to examine trends in earnings quality metrics and interest rates over the study period. This includes plotting the variables to visualize patterns and fluctuations.

Table 4.
Trend analysis.

Metric	Trend analysis result
Net interest margin	Increasing trend, indicating improved profitability for financial institutions over time
Loan loss provisions	Decreasing trend, suggesting better risk management and lower credit losses
Total accruals	Stable trend, indicating consistent accounting practices and transparency
Interest rates	Fluctuating trend, reflecting the impact of macroeconomic factors and central bank policies

The study employed Time Series Analysis to conduct a comprehensive Trend Analysis, examining the evolving patterns of earnings quality metrics and interest rates within Iraq's financial services sector over the study period. This analysis aimed to visually represent and interpret the trends observed in the data to understand the sector's financial dynamics better.

Net Interest Margin: A consistent increase was noted in Net Interest Margin, indicating a positive trend towards improved profitability for financial institutions over time. This suggests that financial institutions in Iraq may have implemented more effective strategies in managing their interest income and expenses.

Loan Loss Provisions: The analysis revealed a declining trend in Loan Loss Provisions, suggesting enhanced risk management practices and reduced credit losses over the study period. This trend indicates that financial institutions may have tightened their lending standards or experienced lower default rates.

Total Accruals: Total Accruals exhibited a stable trend, indicating consistent accounting practices and transparency in financial reporting among financial institutions. This suggests that there has been a steady approach to recognizing revenue and expenses over time.

Interest Rates: Interest Rates displayed a fluctuating trend, reflecting the influence of macroeconomic factors and central bank policies. This trend indicates that interest rates in Iraq have been responsive to changes in the economic environment and monetary policy.

The Trend Analysis provides valuable insights into the long-term trends and behaviors of earnings quality metrics and interest rates in Iraq's financial services sector. Understanding these trends is essential for assessing the sector's financial health, identifying potential risks, and making informed decisions to enhance its stability and performance.

5. Conclusion

The current study has unearthed useful revelations regarding the dynamics within Iraq's financial services arena, specifically concerning the impact of fluctuating interest rates on metrics of earnings quality. The results indicate that movements in interest rates can substantially influence profitability, risk management practices, and accounting strategies for financial institutions in Iraq. The analysis uncovered a positive link between fluctuating interest rates and Net Interest Margin (NIM), signifying that monetary establishments may encounter enhanced profitability as interest rates ascend. However, this also leads to increased provisions for loan defaults, as higher interest rates could exacerbate default dangers.

Furthermore, the study found that financial institutions often embrace more prudent accounting practices during times of economic unpredictability, as evidenced by the negative relationship between interest rate fluctuations and Total Accruals. This implies a more cautious approach to financial reporting, which could strengthen transparency and reliability.

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The findings carry several implications for financial institutions, policymakers, and regulators in Iraq. Monetary establishments may need to modify their strategies to optimize profitability and administer risks productively during periods of fluctuating interest rates. Policymakers and overseers should consider the impact of shifting interest rate dynamics when formulating monetary and economic policies to ensure the steadiness and resilience of the financial services sector. While this investigation has provided useful insights, it is not without limitations. The reliance on secondary data and the focus on a single region may restrict the generalizability of the conclusions. Future analysis could complement these findings with qualitative perceptions and longitudinal studies to capture more nuanced relationships.

In conclusion, this study contributes to comprehending how fluctuating interest rates influence the financial services sector in Iraq and provides a foundation for additional research in this field. By addressing these issues, stakeholders can make informed decisions to boost the stability and performance of the financial services sector in Iraq.

The research findings offer valuable insights into the dynamics of the financial services sector in Iraq, particularly concerning the impact of interest rate fluctuations on earnings quality metrics. The discussion focuses on key findings, implications, limitations, and avenues for future research.

5.1. Key Findings

Interest Rate Impact: The analysis uncovered a noteworthy beneficial relationship between interest rate variations and Net Interest Margin (NIM). This proposes that fiscal organizations in Iraq may encounter enhanced productivity when rates ascend, as recommended by the higher NIM. Though fluctuations may positively impact some metrics, stability often proves preferential.

- Risk Management: The examination found a sure relationship between interest rate shifts and Loan Loss Provisions, be that as it may somewhat more fragile in the arbitrary impacts demonstrate. Higher rates can expand danger as borrowers face expanded rates, conceivably driving more stores for potential defaults. Careful oversight remains key.
- Earnings Management: Total Accruals exhibited a negative relationship with fluctuating rates, proposing more conservative bookkeeping amid unpredictability. While accrual practices may change, main concern stays long haul consistency and straightforwardness.
- Revenue Recognition: The investigation determined a sure relationship between fluctuating rates and Revenue Recognition, proposing a more prudent way to deal with income acknowledgment amid financial vulnerability. Adaptability and client service likewise assume a job as conditions change.

6. Implications

Variations in Approach: To maximize yields amid fluctuating rates, Iraqi banks may require novel tactics. Effective handling of interest risk and fortified risk management could curb possible loan defaults. Accounting Amid Uncertainty: Research shows finance companies tend to employ safer accounting in unpredictable economies, potentially building faith in statements. Policy with Providers in Mind: When crafting monetary and economic plans, officials and watchdogs in Iraq must weigh swings in rates on financial businesses to foster stability in the sector.

7. Limitations

Limitations of Secondary Data: The researchers used existing data sources for their analysis rather than collecting primary data. This secondary data may have lacked precision or omitted certain details that could impact the findings. Complex External Influences: The study accounted for the relationships between its variables but did not consider all outside factors that could have exerted influence, such as shifting regulations or fluctuating economic conditions within the market.

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Context-Dependent Results: The results stem from analyzing one sector—financial services—within the economy of Iraq. As such, the conclusions drawn may not translate directly to other contexts due to variability across regions and industries. Alternative scenarios could produce dissimilar outcomes.

8. Future Research Directions

- Qualitative Analysis: Future research should complement the quantitative analysis with in-depth interviews of financial experts and executives to develop a richer understanding of how interest rate changes truly impact their institutions.
- Longitudinal Perspectives: Long-term studies monitoring key metrics and interest rates over an extended time period could uncover subtle shifts and reveal nuanced relationships between economic conditions and financial performance.
- International Context: Comparative analyses reviewing Iraq alongside various other nations may identify universal themes but also isolate Iraq's distinctive dynamics, thereby informing locally sensitive strategies to mitigate risks and maximize rewards accompanying fluctuations in borrowing costs.

In conclusion, this research emphasizes on the intricate interplay between macroeconomic shifts and indicators of fiscal health within Iraq's financial sector. Policymakers, firms, and academics stand to benefit from the insights gained regarding how to effectively navigate and leverage the way interest level fluctuations reverberate through industry bottom lines and risk profiles. Continuous reevaluation promises to strengthen resilience amid unstable environs.

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References

[1] Alkebsee, R., Alhebry, A. A., & Tian, G. (2022). Whose cash compensation has more influence on real earnings management, CEOs or CFOs? *Journal of Accounting in Emerging Economies*, *12*(1), 187-210.

[2] Almarayeh, T. S., Aibar-Guzmán, B., & Abdullatif, M. (2020). Does audit quality influence earnings management in emerging markets? Evidence from Jordan:¿ Influye la calidad de la auditoría en la gestión de resultados en los mercados emergentes? Evidencia de Jordania. *Revista de Contabilidad-Spanish Accounting Review*, *23*(1), 64-74.

[3] Anderson, M., Hyun, S., & Warsame, H. (2024). Corporate social responsibility, earnings management and firm performance: evidence from panel VAR estimation. *Review of Quantitative Finance and Accounting*, *62*(1), 341-364.

[4] Bouaziz, D., Salhi, B., & Jarboui, A. (2020). CEO characteristics and earnings management: empirical evidence from France. *Journal of Financial Reporting and Accounting*, *18*(1), 77-110.

[5] Brei, M., Borio, C., & Gambacorta, L. (2020). Bank intermediation activity in a low-interest-rate environment. *Economic Notes*, *49*(2), e12164.

[6] Buchholz, F., Lopatta, K., & Maas, K. (2020). The deliberate engagement of narcissistic CEOs in earnings management. *Journal of Business Ethics*, *167*, 663-686.

[7] Chen, X., Owen, Z., Pixton, C., & Simchi-Levi, D. (2022). A statistical learning approach to personalization in revenue management. *Management Science*, *68*(3), 1923-1937.

[8] Cunningham, L. M., Johnson, B. A., Johnson, E. S., & Lisic, L. L. (2020). The switch-up: An examination of changes in earnings management after receiving SEC comment letters. *Contemporary Accounting Research*, *37*(2), 917-944.

[9] Demerjian, P., Lewis-Western, M., & McVay, S. (2020). How does intentional earnings smoothing vary with managerial ability? *Journal of Accounting, Auditing & Finance*, *35*(2), 406-437.

[10] Efuntade, A. O., & Akinola, A. O. (2020). Firm characteristics and financial performance in quoted manufacturing companies in Nigeria. *International Journal of Business and Finance Management Research*, *7*(1), 25-32.

[11] El Diri, M., Lambrinoudakis, C., & Alhadab, M. (2020). Corporate governance and earnings management in concentrated markets. *Journal of Business Research*, *108*, 291-306.

[12] English, W. B., Van den Heuvel, S. J., & Zakrajšek, E. (2018). Interest rate risk and bank equity valuations. *Journal of Monetary Economics*, *98*, 80-97.

[13] García Lara, J. M., Garcia Osma, B., & Penalva, F. (2019). Conditional conservatism and the limits to earnings management. *Available at SSRN 2165694*.

[14] Gerged, A. M., Albitar, K., & Al-Haddad, L. (2023). Corporate environmental disclosure and earnings management—The moderating role of corporate governance structures. *International Journal of Finance & Economics*, *28*(3), 2789-2810.

[15] Gold, A., Heilmann, M., Pott, C., & Rematzki, J. (2020). Do key audit matters impact financial reporting behavior? *International Journal of Auditing*, *24*(2), 232-244.
[16] González, L. O., Santomil, P. D., & Herrera, A. T. (2020). The effect of Enterprise Risk Management on the risk and the performance of Spanish listed companies. *European Research on Management and Business Economics*, *26*(3), 111-120.
[17] He, F., Ma, Y., & Zhang, X. (2020). How does economic policy uncertainty affect corporate Innovation?–Evidence from China listed companies. *International Review of Economics & Finance*, *67*, 225-239.
[18] Huang, S., Roychowdhury, S., & Sletten, E. (2020). Does litigation deter or encourage real earnings management? *The Accounting Review*, *95*(3), 251-278.
[19] Khatib, S. F., Abdullah, D. F., Elamer, A. A., & Abueid, R. (2021). Nudging toward diversity in the boardroom: A systematic literature review of board diversity of financial institutions. *Business strategy and the environment*, *30*(2), 985-1002.
[20] Kliestik, T., Valaskova, K., Nica, E., Kovacova, M., & Lazaroiu, G. (2020). Advanced methods of earnings management: Monotonic trends and change-points under spotlight in the Visegrad countries. *Oeconomia Copernicana*, *11*(2), 371-400.
[21] Li, Y., Li, X., Xiang, E., & Djajadikerta, H. G. (2020). Financial distress, internal control, and earnings management: Evidence from China. *Journal of Contemporary Accounting & Economics*, *16*(3), 100210.
[22] MUHAMMAD, N. P. A. (2018). *Earnings Management, Business Strategy, and Bankruptcy Risk* Universitas Airlangga].
[23] Napier, C. J., & Stadler, C. (2020). The real effects of a new accounting standard: the case of IFRS 15 Revenue from Contracts with Customers. *Accounting and Business Research*, *50*(5), 474-503.
[24] Nguyen, T. N. L., & Nguyen, V. C. (2020). The determinants of profitability in listed enterprises: A study from Vietnamese stock exchange. *Journal of Asian Finance, Economics and Business*, *7*(1), 47-58.
[25] Orazalin, N. (2020). Board gender diversity, corporate governance, and earnings management: Evidence from an emerging market. *Gender in Management: An International Journal*, *35*(1), 37-60.
[26] Saona Hoffmann, P. R. (2020). How do the ownership structure and board of directors' features impact earnings management? The Spanish case.
[27] Tanrıvermiş, H. (2020). Possible impacts of COVID-19 outbreak on real estate sector and possible changes to adopt: A situation analysis and general assessment on Turkish perspective. *Journal of Urban Management*, *9*(3), 263-269.
[28] Toumeh, A. A., Yahya, S., & Amran, A. (2023). Surplus free cash flow, stock market segmentations and earnings management: The moderating role of independent audit committee. *Global Business Review*, *24*(6), 1353-1382.
[29] Umar, M., Ji, X., Mirza, N., & Naqvi, B. (2021). Carbon neutrality, bank lending, and credit risk: Evidence from the Eurozone. *Journal of Environmental Management*, *296*, 113156.
[30] Xiao, T., Geng, C., & Yuan, C. (2020). How audit effort affects audit quality: An audit process and audit output perspective. *China Journal of Accounting Research*, *13*(1), 109-127.
[31] Zumente, I., & Bistrova, J. (2021). ESG importance for long-term shareholder value creation: Literature vs. practice. *Journal of Open Innovation: Technology, Market, and Complexity*, *7*(2), 127.

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