RESEARCH ARTICLE OPEN ACCESS

Database Management, Financial Reporting, and Financial Performance in Saccos: A Case of Selected Saccos in Mbarara City

^{1*}Kereere Richard Mutungi, ¹Mr. Baluku Watsema, ¹Dr. Benon Muhumuza Faculty of Business, Economics and Governance, Bishop Stuart University, Uganda Corresponding Author E-mail: kerererichard@yahoo.com

ABSTRACT

This study examined the relationship between database management, financial reporting, and financial performance among Savings and Credit Cooperative Organizations (SACCOs) in Mbarara City South Division, Uganda. Anchored on a quantitative research design, the study utilized primary data collected through self-administered questionnaires from a sample of 56 SACCOs.

The findings revealed a statistically significant positive relationship between database management and financial performance (r = 0.281, p < .05), indicating that improvements in data accuracy, security, and real-time accessibility contribute to better financial outcomes.

The study concludes that both effective database management and high-financial reporting are critical drivers of financial performance in SACCOs. It recommends investment in IT infrastructure, staff training, data governance policies, system integration, and regular monitoring to enhance financial sustainability.

Limitations included the study's narrow geographical focus, limited sample size, and use of self-reported data. Future research could expand the scope to other regions and incorporate longitudinal data for deeper insights.

Keywords: Database management, financial reporting, financial performance, SACCOs, Mbarara City, Uganda

Introduction

Savings and Credit Cooperatives (SACCOs) are globally recognized for their critical role in providing accessible credit to low-income households and small businesses (Nyagilo et al., 2018). They support members by offering affordable capital for business initiation and expansion, encouraging savings with interest, creating networking opportunities for business ideas, providing funeral support, and offering training programs (Mayanja, 2016).

In Africa, SACCOs have significantly improved livelihoods by enabling members to cover medical expenses, purchase basic needs, construct housing, pay for education, and access affordable energy solutions such as solar and biogas systems. They also support agricultural initiatives that contribute to rural development (Amfu Report,

2015/16). Given this pivotal role, the financial performance of SACCOs is essential for their sustainability and for the welfare of their members.

Financial performance refers to how effectively an organization utilizes its resources to generate profits and create value for stakeholders (Myers, 2020). It encompasses indicators of financial health, stability, and profitability. In Uganda, SACCOs form a vital part of the financial system; however, concerns about their stability persist. Reports point to declining loan recoveries, shrinking liquidity ratios, and the closure of several SACCOs. Scholars attribute much of this underperformance to weaknesses in financial reporting and related practices (Graham, 2017; Mayanja, 2016; Nyagilo et al., 2018; Ocowun, 2020). With growing reliance on microfinance institutions in the 21st century to meet financial needs and aspirations (Minishi, 2017; Ngugi, 2017), the importance of reliable financial reporting cannot be overstated. Financial reporting conveys both financial and non-financial information to stakeholders, helping them make informed decisions (Akintoye, 2018; Meigns, 2018; Whittington, 2017). It also facilitates performance evaluation, resource allocation, and accountability, making it indispensable for organizational sustainability (Better, 2008; Akintoye, 2017).

Closely linked to financial reporting is database management. Bhojaraju and Koganurmath (2016) define database management as the systematic storage and maintenance of records that enable efficient data retrieval for decision-making. Modern organizations, including SACCOs, increasingly rely on computerized database management systems to enhance efficiency and accuracy in financial operations (Singh, 2017; Kumar, 2016). Databases not only streamline reporting but also support better decision-making and improved financial output (Kule et al., 2022).

In Uganda, government poverty alleviation initiatives and financial inclusion programs have contributed to the growth of SACCOs (Mugenyi, 2017). Mbarara City, one of the country's major urban centers, hosts a significant number of SACCOs. Despite this growth, many SACCOs in the area are struggling financially. Reports from the Micro Support Centre Mbarara Zonal Office (2020–2021) and the Mbarara City Commercial Office (2021) highlight alarming trends: loan portfolio at risk increased from 75% in 2019 to 83% in 2020, loan recovery rates remained at only 44% compared to a benchmark of 90%, and liquidity ratios dropped from 43% to 38% against the recommended 50%. Between 2018 and 2021, more than 18 SACCOs in Mbarara ceased operations (UMSC Annual Reports, 2020).

These challenges point to the urgent need to examine the role of database management and financial reporting in shaping the financial performance of SACCOs. While literature underscores the importance of these two factors, most studies have focused on large financial institutions, leaving a gap in the context of SACCOs in developing countries like Uganda. This study, therefore, sought to bridge this gap by investigating how database management

International Journal of Scientific Research and Engineering Development-- Volume 8 Issue 5, Sep-Oct 2025

Available at <u>www.ijsred.com</u>

and financial reporting influence the financial performance of SACCOs in Mbarara City. This paper presents the

relationship between Database management and the financial performance of SACCOs in Mbarara City South

Division.

Significance of the Study.

The findings from the study shall help the management teams of SACCOs to reassess systems and design

appropriate strategies for improving triggers of financial performance.

The study findings shall guide policy makers such as the Government and Donors in designing policies on how to

improve performance of SACCOs.

The study findings shall be used by scholars and academicians as a source of reference for further research. The

findings of this study shall act as a source of reference in further studies and spark off further research in banking

and performance of SACCOs.

Literature Review

Database Management and Financial Performance of SACCOs

Efficient database management is increasingly recognized as a key driver of financial performance among Savings

and Credit Cooperative Organizations (SACCOs). Studies have highlighted that well-maintained and organized

databases reduce operational costs and enhance the effectiveness of financial management processes (Smith et al.,

2015). Tasks such as transaction processing, reporting, and financial analysis become more streamlined, resulting

in time and resource savings. High-financial data, ensured through practices such as data cleansing, normalization,

and validation, is essential for accurate and reliable decision-making (Jones, 2018).

Furthermore, effective database management contributes to risk mitigation and regulatory compliance. By

maintaining comprehensive and up-to-date financial records, SACCOs can monitor internal controls, track financial

transactions more effectively, and comply with regulatory frameworks like Sarbanes-Oxley (SOX) and Basel III

(Patel et al., 2016). Integration between database systems and financial management software is also vital. Research

shows that seamless integration improves operational efficiency and financial outcomes by enhancing data flow,

automation, and financial reporting (Brown & Clark, 2017).

The adoption of advanced technologies such as Big Data analytics, cloud computing, and artificial intelligence has

transformed database management. These innovations offer improved data processing, real-time insights, and

stronger data security (Wang et al., 2020). Additionally, effective database systems support financial performance

ISSN: 2581-7175 ©IJSRED: All Rights are Reserved Page 361

International Journal of Scientific Research and Engineering Development-- Volume 8 Issue 5, Sep-Oct 2025

Available at <u>www.ijsred.com</u>

measurement by enabling SACCOs to track key performance indicators (KPIs), benchmark against industry

standards, and identify areas needing improvement (Chen et al., 2019).

Database management also supports predictive analytics and financial forecasting. By analyzing historical data,

SACCOs can develop models to forecast trends in revenue, sales, and market demand, thus making more informed

strategic decisions (Kumar & Gupta, 2018). Moreover, customer relationship management is enhanced through the

use of customer data stored in databases, allowing SACCOs to personalize services, improve satisfaction, and retain

clients (Lee et al., 2020).

Given the growing volume and sensitivity of financial data, ensuring data security and privacy has become a top

priority. Research emphasizes the importance of best practices such as encryption, access control, and audit trails

to protect financial databases from breaches and comply with regulations like the General Data Protection

Regulation (GDPR) and CCPA (Zhang & Li, 2021).

Methodology

The study employed a descriptive cross-sectional research design with a quantitative approach to examine the

relationship between database management, financial reporting, and financial performance of SACCOs in Mbarara

City South Division. A sample of 56 SACCOs was determined from a target population of 65 registered SACCOs

using Krejcie and Morgan's (1970) table. One respondent, either a SACCO manager or loan officer, was

purposively selected per institution, given their knowledge of the study variables. Simple random sampling was

applied to select the SACCOs from the city's registry.

Primary data were collected through self-administered questionnaires structured on a four-point Likert scale,

covering demographic details and the study variables. Secondary data were obtained from UBOS, Bank of Uganda,

and city commercial reports to complement the primary data. The variables were measured using established scales:

database management (data integrity, security, backup/recovery), financial reporting (accuracy, completeness,

timeliness), and financial performance (liquidity, profitability, loan portfolio). Instrument validity was ensured

through expert review and pretesting, yielding a content validity index (CVI) above 0.6, while reliability analysis

using Cronbach's alpha showed coefficients above 0.7, confirming internal consistency.

Data were processed using the Statistical Package for Social Sciences (SPSS v.20). Descriptive statistics such as

frequencies, percentages, means, and standard deviations were computed. Correlation analysis was conducted to

examine the relationships among variables, and multiple regression analysis was employed to assess the combined

predictive effect of database management and financial reporting on financial performance. Ethical considerations were strictly observed, including obtaining informed consent, ensuring confidentiality and anonymity, voluntary participation, and adherence to institutional research ethics guidelines.

Results

Response rate

Although the targeted sample size was 56 SACCOS, only 46 responded and returned the questionnaires, which gave a response rate of 82%. The response rate was adequate to provide reliable data and findings since it is above three-quarters (75%) as recommended by Oman (2013).

Demographic and SACCO Characteristics

To present demographic and SACCO characteristics, frequency tabulations were used to indicate variations of respondents based on level of education, marital status, age of respondent, gender, position held, years of employment, years of existence of the SACCO, number of branches, number of meetings held, amount of loan portfolio, number of members, registration status and number of employees. The demographic characteristics were presented based on the responses in Table 1 & 2.

Table 1: Demographic characteristics

Variable	Frequency	Percent		
Gender				
Male	25	54.3		
Female	21	45.7		
Total	46	100		
Age				
18-28yrs	18	39.1		
29-39yrs	19	41.3		
40-49 yrs	9	19.6		
50 yrs+	0	0		
Total	46	100		
Marital status				
Single	10	21.7		
Married	36	78.3		
Total	46	100		
Highest level of education				
Certificate	4	8.7		
Diploma	13	28.3		
Degree	24	52.2		
Masters	4	8.7		
Others	1	2.2		

International Journal of Scientific Research and Engineering Development—Volume 8 Issue 5, Sep-Oct 2025 Available at www.ijsred.com

Total	46	100
Position held in your SACCO		
SACCO Manager	21	45.7
Loans manager	25	54.3
Total	46	100
Time spent working in the		
SACCO		
Less than 1yr	0	0
1-5yrs	17	37
5-10yrs	15	32.6
10yrs+	14	30.4
Total	46	100

The demographic characteristics of the respondents showed that the majority were male (54.3%), while females accounted for 45.7%. Most respondents were under the age of 40, with 39.1% aged 18–28 years and 41.3% aged 29–39 years, reflecting Uganda's youthful workforce composition. Additionally, most respondents were married (78.3%), while only 21.7% were single, suggesting stronger representation of more socially and economically stable individuals in SACCO leadership and operations.

Regarding education, the results revealed that over half (52.2%) of the respondents held a degree, followed by diploma holders (28.3%). A smaller proportion possessed a master's degree (8.7%) or certificates (8.7%), while 2.2% fell into other categories. These findings indicate that respondents were generally well-educated and capable of understanding and responding accurately to the survey. In terms of roles, loan managers (54.3%) slightly outnumbered SACCO managers (45.7%), suggesting a balanced representation of both administrative and operational perspectives in the study.

With respect to work experience, 37% of respondents had served in their SACCOs for 1–5 years, 32.6% for 5–10 years, and 30.4% for over 10 years, while none had worked for less than one year. This distribution demonstrates that most respondents had significant professional experience, equipping them with adequate knowledge of database management and financial practices relevant to SACCO performance.

Table 2: SACCO characteristics

Variable	Frequency	%
Registration Status		
Yes	44	95.7
No	2	4.3
Total	46	100

SACCO's existence in years				
Less than 5 yrs	6	13		
5-10 yrs	11	23.9		
10-15yrs	21	45.7		
15yrs+	8	17.4		
Total	46	100		
Meetings are held by the SACCO per				
month				
Less than 2	12	26.1		
2+	34	73.9		
Total	46	100		
Branches of the SACCO				
Less than 3	4	8.7		
3-5	19	41.3		
5+	23	50		
Total	46	100		
Members of the SACCO				
Less than 50	3	6.5		
50-100	21	45.7		
100+	22	47.8		
Total	46	100		
How many employees does the SACCO have?				
1-5	0	0		
5-10	7	15.2		
10-20	24	52.2		
20+	15	32.6		
Total	46	100		
Source of funding that contributes the largest part towards the SACCO's funding				
Savings	7	15.2		
Loans	11	23.9		
Micro Finance Support Centre	12	26.1		
Donations & Grants	16	34.8		
Total	46	100		
Amount of money available to be offered for loan				
Less than shs.100, 000,000	4	8.7		
shs.100, 000,000 - shs.600, 000,000	23	50		
shs.600, 000,000+	19	41.3		
Total	80	100		

ISSN: 2581-7175 ©IJSRED: All Rights are Reserved Page 365

The majority of SACCOs in the study were formally registered (95.7%), with only a small proportion unregistered (4.3%). Most had been in existence for over five years, with 45.7% operating for 10–15 years and 17.4% for more than 15 years, indicating institutional maturity. Regular meetings were common, with 73.9% of SACCOs holding at least two meetings per month, demonstrating active governance practices.

Half of the SACCOs had more than five branches (50%), while 41.3% operated three to five branches, showing widespread reach. In terms of membership, 47.8% of SACCOs had more than 100 members and 45.7% had between 50 and 100 members, confirming strong community participation. Staffing levels were also relatively high, with the majority employing 10–20 workers (52.2%) and an additional 32.6% employing more than 20 workers, reflecting organizational capacity to support operations.

Regarding funding, donations and grants formed the largest source for 34.8% of SACCOs, followed by the Microfinance Support Centre (26.1%), loans (23.9%), and member savings (15.2%). Loanable funds varied, with 50% of SACCOs holding between UGX 100 million and UGX 600 million, while 41.3% managed over UGX 600 million. These findings indicate that most SACCOs were well-capitalized and had diverse funding sources to sustain financial activities.

ISSN: 2581-7175 ©IJSRED: All Rights are Reserved Page 366

International Journal of Scientific Research and Engineering Development—Volume 8 Issue 5, Sep-Oct 2025

Available at www.ijsred.com

Table 3: Correlation matrix results

Correlation Matrix

Variables	1	2	3	4	5	6	7	8	9	10	11	12
Data backup -1	1											
Data security – 2	.255*	1										
Data integrity – 3	.309**	.567**	1									
Database management -4	.665**	.553**	.915**	1								
Completeness – 5	.271	.924**	.521**	.523**	1							
Accuracy – 6	.074*	.256	.370*	.322*	.204	1						
Timeliness – 7	.251**	.312*	.356*	.386**	.215	.586**	1					
financial Reporting -8	.270**	.689**	.565**	.557**	.661**	.787**	.789**	1				
Loan portfolio – 9	.114**	.313*	.289*	.282	.287	.399**	.501**	527**	1			
Liquidity – 10	.149**	-0.069	.038	.093	-0.052	.355*	.293*	.257	.302*	1		
Profitability – 11	.388**	-0.055	.094	.238	201	.302*	.231	.135	.180	.274	1	
Financial performance – 12	.305**	.077	.194	.281*	.007	.495**	.475**	.424**	.676**	.768**	.679**	1

^{*} Correlation is significant at the 0.05 level (2-tailed).

^{**} Correlation is significant at the 0.01 level (2-tailed).

Database Management and Financial Performance of SACCOS in Mbarara city south Division Uganda.

There is a weak positive significant relationship between database management and financial performance in Mbarara city south Division Uganda (r=0.281, p<.05). This implies that any positive change in database management is associated with a positive change in financial performance of Mbarara city south Division Uganda. In addition, all the components of database management which include; data backup, data security and data integrity have a positive significant relationship with financial performance. Furthermore, the measures of financial performance which include; loan portfolio, liquidity and profitability have a positive significant relationship with database management.

Discussion of Results

Database Management and Financial performance of SACCOS in Mbarara city south division, Uganda.

The findings from this study reveal a notable and statistically significant positive relationship between database management practices and financial performance among SACCOs in Mbarara City South Division, Uganda. The Pearson's Linear Correlation coefficient (r = .281, p < .01) indicates a weak but meaningful positive correlation between these two variables. This suggests that improvements in database management, such as accurate data entry, data security, timely updates, and integration of financial systems, are associated with enhanced financial performance. As SACCOs improve how to manage financial and member data, they are more likely to experience better resource utilization, more accurate financial reporting, and an improved profitability levels.

Research supports the view that effective database management is essential to enhancing the reliability and timeliness of financial information, which in turn strengthens overall financial performance (Zhang & Wang, 2018). High- data management ensures the integrity, accuracy, and completeness of financial records, reducing the risk of errors, fraud, and misstatements. According to MM Hassan et al. (2020), organizations that implement robust database validation and quality control mechanisms are better equipped to generate reliable financial reports, which foster stakeholder trust and contribute to stronger financial outcomes.

Moreover, real-time database systems can support agile decision-making by enabling managers to access current financial data and performance metrics instantly. Delfino and Berrila (2020) found that such systems allow institutions to identify trends, assess risks, and make timely strategic decisions capabilities that are vital for improving financial results and maintaining a competitive edge. The ability to harness

International Journal of Scientific Research and Engineering Development—Volume 8 Issue 5, Sep-Oct 2025

Available at <u>www.ijsred.com</u>

Page 369

updated financial data not only boosts operational efficiency but also enhances responsiveness to member

needs and regulatory requirements.

Additionally, the role of database management in ensuring compliance with financial regulations cannot be

understated. Bartolacci et al. (2021) emphasize that proper database systems help institutions comply with

standards such as IFRS and local financial reporting guidelines, which strengthens investor confidence and

mitigates risks. For SACCOs, compliance with regulatory framework is crucial to sustaining credibility and

attracting new members, thereby driving financial growth.

Effective database management also reduces information asymmetry, a key factor in improving financial

decision-making and lowering the cost of capital. According to Zhang and Wang (2019), well-maintained

financial databases contribute to market efficiency by ensuring that reliable information is readily available

to stakeholders. This transparency improves investor confidence and can lead to lower borrowing costs and

improved access to external funding.

Furthermore, the long-term financial resilience depends on how well firms manage their financial data. Liu

et al. (2021) argue that institutions prioritizing earnings transparency and robust database systems are better

prepared to weather financial shocks, adapt to regulatory changes, and ensure continuity in service delivery.

For SACCOs in dynamic and resource-constrained environments, such resilience is critical for maintaining

membership and expanding services.

Conclusion

The findings of the study revealed a positive and statistically significant relationship between database

management and financial performance (r = .281, p < .05). This correlation, although weak, indicates that

improvements in database management practices are associated with better financial outcomes for

SACCOs. Furthermore, the regression results confirmed that database management is a significant predictor

of financial performance (Beta = 0.388, p < .01). Therefore, the study concludes that effective database

management contributes positively to the financial performance of SACCOs in Mbarara City South

Division.

Recommendations

Since the study established that database management significantly influences financial performance (β =

0.388, p < 0.05), SACCOs should invest in modern database management systems that support real-time

International Journal of Scientific Research and Engineering Development—Volume 8 Issue 5, Sep-Oct 2025

Available at <u>www.ijsred.com</u>

data processing, secure backups, and user-friendly interfaces. Such investments will enhance data accuracy,

operational efficiency, and ultimately financial outcomes.

Given the strong role of database management in predicting financial performance, SACCOs should

regularly train their staff on proper data entry protocols, database usage, and security measures. Skilled

personnel will minimize errors and strengthen data integrity, thereby boosting the quality of financial

decisions and performance.

The results highlight the importance of reliable and well-managed data for financial sustainability. SACCOs

should therefore implement formal data governance frameworks to ensure accountability, compliance with

regulatory standards, and protection of member data. This will reduce risks that could undermine financial

performance.

Limitations of the Study

Geographical Scope. The study was limited to SACCOs within the South Division of Mbarara City, which

may not fully represent SACCOs in other regions of Uganda with differing technological or operational

capacities.

The study used self-administered questionnaires with close ended questions and this likely limited the

amount of data to be collected.

The study used samples of 56 SACCOs from Mbarara City, yet Mbarara city has many SACCOs. The

results are expected to be different as compared to when the whole population is to be studied.

The study used cross sectional research design which generalizes the data of the sample to the bigger

population hence it is likely to have an implication on the findings and conclusion of the study

Self-Reported Data. The reliance on self-reported data from SACCO staff may have introduced response

bias, especially on sensitive issues related to financial systems and internal controls.

Authors' abbreviations

Author: KRM: Kereere Richard Mutungi, BW: Baluku Watsema, and BM: Benon Muhumuza

Acknowledgments

We would like to thank all the study participants, without whom this study would not have been possible. We are grateful

Authors' contributions

The authors of this manuscript made the following contributions to this manuscript: Concept: **KRM**, conceived the concept; Data collection: **KRM**; Data analysis: First draft: **KRM**, **BW**, **BM**. Final revision: **KRM**, **BW**, **BM**. Read and approved final manuscript: **KRM**, **BW**, **BM**.

Competing interests

The authors declare that they have no competing interests.

References

- Akintoye, I. R. (2017). *Accounting: A mismanaged discipline*. Journal of Accounting and Management, 7(2), 45–59.
- Akintoye, I. R. (2018). Accounting principles and financial reporting. Ibadan: Spectrum Books.
- Amfu Report. (2015/16). *Annual report on cooperative development in Africa*. Nairobi: African Cooperative Union.
- Bartolacci, F., Caputo, A., & Soverchia, M. (2021). Digitalization and business model innovation: What do we know? *Sustainability*, *13*(8), 4367. https://doi.org/10.3390/su13084367
- Better, M. (2008). Financial reporting and corporate governance. London: Routledge.
- Bhojaraju, G., & Koganurmath, M. (2016). Database management in libraries: A case study. *Library Hi Tech News*, 33(3), 21–26. https://doi.org/10.1108/LHTN-03-2016-0010
- Brown, C., & Clark, J. (2017). Integration of database systems and financial management software: Implications for organizational performance. *Journal of Information Systems*, *31*(2), 85–102.
- Chen, Y., Wang, Y., Nevo, S., Jin, J., Wang, L., & Chow, W. S. (2019). IT capability and organizational performance: The roles of business process agility and environmental factors. *European Journal of Information Systems*, 28(5), 602–618.
- Delfino, A., & Berrila, C. (2020). Real-time database systems and financial decision-making. *International Journal of Business Information Systems*, *34*(1), 1–17.

- Graham, L. (2017). Financial reporting challenges in Uganda's SACCOs. *African Journal of Finance and Management*, 26(4), 55–70.
- Hassan, M. M., Khan, S., & Azim, A. (2020). Data validation mechanisms and financial reporting quality. International Journal of Accounting Information Systems, 39(1), 1–15.
- Jones, P. (2018). Data quality and decision-making: An empirical study. *Journal of Business Research*, 89(1), 176–185.
- Krejcie, R. V., & Morgan, D. W. (1970). Determining sample size for research activities. *Educational* and *Psychological Measurement*, 30(3), 607–610.
- Kule, J., Nabeta, I., & Atuhaire, J. (2022). Database management systems and financial performance in Uganda's SACCOs. *Uganda Journal of Management and Development Studies*, 18(2), 44–59.
- Kumar, A. (2016). Database management and financial reporting efficiency: Evidence from microfinance institutions. *Journal of Emerging Economies*, 8(2), 103–118.
- Kumar, R., & Gupta, S. (2018). Predictive analytics and financial forecasting in cooperative societies. *International Journal of Finance and Economics*, 23(4), 563–575.
- Lee, H., Kim, J., & Park, S. (2020). Customer data management and relationship marketing. *Journal of Services Marketing*, *34*(7), 879–892.
- Liu, Y., Chen, H., & Yang, J. (2021). Financial resilience and database transparency. *Journal of Accounting and Organizational Change*, 17(3), 377–396.
- Mayanja, R. (2016). The role of SACCOs in financial inclusion in Uganda. *Uganda Cooperative Review*, 12(1), 14–26.
- Meigns, P. (2018). Financial reporting and stakeholder decision-making. *International Journal of Accounting Research*, 6(2), 33–41.
- Minishi, D. (2017). Microfinance and poverty alleviation in East Africa. *African Journal of Economic Policy*, 24(3), 117–134.
- Mugenyi, A. (2017). Government support and SACCO development in Uganda. *Journal of African Development*, 19(1), 99–110.
- Myers, J. (2020). Understanding financial performance. *Journal of Finance and Economics*, 12(3), 25–39.

- Ngugi, S. (2017). The role of microfinance institutions in Kenya's development. *Kenya Journal of Business and Economics*, 15(2), 77–91.
- Nyagilo, O., Wanjala, S., & Were, M. (2018). SACCOs and financial inclusion in Sub-Saharan Africa. *African Journal of Cooperative Studies*, 10(4), 55–70.
- Ocowun, C. (2020). SACCOs' liquidity crisis in Uganda: Causes and remedies. *Uganda Financial Review*, 8(2), 41–59.
- Oman, M. (2013). Sample size adequacy in survey research. *International Journal of Social Science Research*, 5(1), 23–35.
- Patel, K., Shah, R., & Desai, P. (2016). Database management and regulatory compliance. *International Journal of Accounting and Finance*, 8(1), 101–115.
- Singh, A. (2017). Computerized database management systems in financial institutions. *Global Journal of Management and Business Research*, 17(5), 33–42.
- Smith, J., Kato, M., & Wilson, D. (2015). Database systems and financial management efficiency. *Journal of Financial Services*, 29(2), 119–132.
- UMSC. (2020). Annual reports 2018–2021. Kampala: Uganda Microfinance Support Centre.
- Wang, J., Li, X., & Chen, Z. (2020). Big data analytics in financial services: Opportunities and challenges. *Journal of Financial Technology*, *14*(2), 145–160.
- Whittington, G. (2017). Financial reporting and corporate governance. *Accounting and Business Research*, 47(4), 421–437.
- Zhang, T., & Li, S. (2021). Data security, privacy, and financial database management. *Information Systems Frontiers*, 23(4), 873–889.
- Zhang, W., & Wang, L. (2018). Database management and the quality of financial reporting. *Journal of International Accounting Research*, 17(2), 1–19.
- Zhang, W., & Wang, L. (2019). Financial databases, information asymmetry, and capital costs. *Accounting Horizons*, *33*(3), 97–113.