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AI-generated content may be incorrect.SQL ASSESSMENT WORKBOOK V3 Step-5: Industry-Leading Governance**

***EduFin SQL Governance Workbook: A Practical Guide to Risk Dashboards, Compliance Metrics, and Audit-Ready Queries***

**Program: Skill AI Path – Data Analyst Pretraining Track  
Module: EduFin Risk Analytics Simulation  
Assessment Type: Skill Validation – SQL Query Writing + Business Understanding  
Prepared For: EduFin Data Analyst Cohort  
Organization: Krishnav Tech | Skill AI Path**

**Objective**

The objective of this session is to build the skills required to design and implement industry-leading governance using SQL. Participants will learn to create executive-level dashboards, define governance KPIs, and ensure audit readiness through complete data lineage and compliance-focused reporting. By mastering these techniques, learners will be able to strengthen risk oversight, automate governance alerts, and deliver board-ready reports aligned with regulatory standards.

# SQL Skill Check Assessment – Pretraining Workbook

## PART A: Query Writing (60 points)

**Question 1 (10 points)**  
Write a query to identify all loans where the disbursement amount doesn't match the approved loan amount, indicating potential manual processing errors..

**Your Answer:**

**Question 2 (10 points)**  
Create an audit query to find customers who have multiple active loans but only went through verification once, showing a gap in the re-verification process.

**Your Answer:**

**Question 3 (10 points)**  
Build a dependency mapping query showing how many customers are stuck at each stage of the loan process and what's blocking their progression.

**Your Answer:**

**Question 4 (10 points)**  
Write a cross-system validation query to identify discrepancies between the expected payment schedule and actual payment records, highlighting collection system issues.

**Your Answer:**

**Question 5 (10 points)**  
Create a pattern detection query to identify loan officers or branches with abnormally high rates of data entry errors or rule violations.

**Your Answer:**

**Question 6 (10 points)**  
Design a systemic impact analysis query showing how missing customer documentation cascades to affect loan performance, collection success, and default rates.

**Your Answer:**

## PART B: Multiple Choice Questions (40 points)

**Question 7:**  
What is the primary purpose of regulatory stress testing?

- A) Historical analysis

- B) Capital adequacy assessment under adverse scenarios

- C) Customer segmentation

- D) Marketing optimization

**Answer:**

**Question 8:**  
In data governance KPIs, what does "data freshness" measure?

- A) Data accuracy percentage

- B) Time since data was last updated

- C) Number of missing values

- D) Data format compliance

**Answer:**

**Question 9:**  
Which SQL clause is essential for creating audit trails?

- A) GROUP BY only

- B) WHERE with date filters and timestamp functions

- C) ORDER BY

- D) HAVING

**Answer:**

**Question 10:**  
What weight should risk management typically have in a governance health index?

- A) 10%

- B) 50%

- C) 25-30%

- D) 5%

**Answer:**

**Question 11:**  
Why use LAG() function in governance trend analysis?

- A) Data sorting

- B) Period-over-period comparison

- C) Aggregation

- D) Data validation

**Answer:**

**Question 12:**  
What constitutes a "board-ready" governance report?

- A) Technical details only

- B) Raw data extracts

- C) Executive KPIs with action recommendations

- D) Database schemas

**Answer:**

**Question 13:**  
In audit control totals, why validate unique counts vs total counts?

- A) Performance optimization

- B) Data duplication detection

- C) Sorting requirements

- D) No specific reason

**Answer:**

**Question 14:**  
What triggers a "concentration risk" flag in portfolio analysis?

- A) High loan amounts

- B) Geographic/institutional exposure exceeding thresholds

- C) Customer complaints

- D) Data quality issues

**Answer:**

**Question 15:**  
Why use CASE statements in governance scoring?

- A) Performance benefits

- B) Business rule implementation and threshold-based ratings

- C) Data sorting

- D) Query optimization

**Answer:**

**Question 16:**  
What makes a governance health index "executive-ready"?

- A) Technical complexity

- B) Single composite score with dimension breakdown and actionable insights

- C) Multiple tables

- D) Raw percentages only

**Answer:**

## PASSING CRITERIA

* Minimum Score Required: **80 out of 100**
* Query Writing: **At least 48/60**
* MCQ Section: **At least 32/40**
* Time Limit: **90 minutes**
* Retakes Allowed: Unlimited until 80% is achieved

## SKILLS YOU VALIDATE

Upon achieving 85%, you will have demonstrated:

- ✅ Board-level dashboard creation with executive KPIs

- ✅ Comprehensive data governance framework implementation

- ✅ Regulatory stress testing and scenario modeling

- ✅ Audit-ready data extraction with complete lineage

- ✅ Governance health index computation and monitoring

- ✅ Exception reporting and automated alerting logic

- ✅ Trend analysis with period-over-period comparisons

- ✅ Risk assessment and regulatory compliance validation

## STUDY RECOMMENDATIONS

1. **Master board-level reporting patterns** - executives need actionable insights, not technical details

2. **Understand regulatory compliance frameworks** - governance isn't just about data quality

3. **Practice stress testing scenarios** - economic modeling is critical for risk assessment

4. **Get comfortable with audit requirements** - external auditors have specific documentation needs

5. **Focus on trend analysis and variance reporting** - governance requires longitudinal perspective

**Time Investment:** Allow 6-7 hours for complete mastery before assessment.

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