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AI-generated content may be incorrect.SQL ASSESSMENT WORKBOOK V3 Step-1: Strategic Recovery Foundations**

**The *EduFin SQL Skill Assessment Workbook:*  is a beginner-friendly guide designed to help learners build confidence in SQL queries, understand core business logic, and accurately interpret outputs for practical decision-making.**

**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 equip participants with the technical and analytical skills needed to rebuild operational excellence through recovery-oriented SQL practices. By the end of the training, learners will be able to map end-to-end processes, design and validate quality control frameworks, and implement SLA monitoring with compliance tracking. They will also develop governance and escalation systems, assess technology scalability and team capabilities, and build recovery-focused dashboards that ensure accountability and audit readiness. This foundation prepares participants to drive effective recovery strategies with robust data-driven insights and governance.

# SQL Skill Check Assessment – Pretraining Workbook

## PART A: Query Writing (60 points)

**Question 1 (10 points)**  
Write a query to analyze the complete loan processing workflow from application to disbursement. Show average processing time by institution and identify bottlenecks.

**Your Answer:**

**Question 2 (10 points)**  
Create a data quality health check for the customers table. Include validation for phone numbers, email formats, income ranges, and CIBIL scores with clear quality scores.

**Your Answer:**

**Question 3 (10 points)**  
Design a capacity analysis showing daily transaction volumes for loans, payments, and new customers over the last 30 days with growth projections.

**Your Answer:**

**Question 4 (10 points)**  
Build a collection agent performance analysis showing success rates, average contact attempts, and recovery amounts with specific training recommendations.

**Your Answer:**

**Question 5 (10 points)**  
Develop a governance compliance check that identifies high-risk loans, payment anomalies, and customer data issues with appropriate escalation levels.

**Your Answer:**

**Question 6 (10 points)**  
Create an executive dashboard showing portfolio health, recovery performance, and geographic risk distribution with clear action items.

**Your Answer:**

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

**Question 7:**  
Which SQL function is best for calculating processing time between two dates?

- A) DATEPART()

- B) DATEDIFF()

- C) DATEADD()

- D) GETDATE()

**Answer:**

**Question 8:**  
What does the CASE statement help us achieve in business analysis?

- A) Data storage

- B) Creating business rules and categories

- C) Improving query speed

- D) Database connections

**Answer:**

**Question 9:**  
Why do we use FORMAT() function for currency display?

- A) To make calculations faster

- B) To present numbers in readable Indian currency format

- C) To store data efficiently

- D) To prevent errors

**Answer:**

**Question 10:**  
What is the purpose of HAVING clause in GROUP BY queries?

- A) To filter individual rows before grouping

- B) To filter grouped results after aggregation

- C) To sort the results

- D) To join tables

**Answer:**

**Question 11:**  
Which approach best identifies data quality issues?

- A) COUNT(\*) only

- B) Manual review only

- C) COUNT(CASE WHEN condition THEN 1 END) for specific validations

- D) Simple WHERE clauses

**Answer:**

**Question 12:**  
What makes a governance alert system effective?

- A) Complex calculations

- B) Clear thresholds with specific action recommendations

- C) Daily reports only

- D) Historical data focus

**Answer:**

**Question 13:**  
How should we measure collection agent performance?

- A) Number of calls made only

- B) Success rate, contact attempts, and recovery amount together

- C) Total customers assigned

- D) Days worked

**Answer:**

**Question 14:**  
What is the key benefit of using window functions like LAG()?

- A) Faster processing

- B) Comparing current values with previous periods

- C) Better data storage

- D) Simpler syntax

**Answer:**

**Question 15:**  
Which SQL pattern helps identify potential duplicates?

- A) Simple COUNT(\*)

- B) COUNT(\*) vs COUNT(DISTINCT column combinations)

- C) GROUP BY only

- D) ORDER BY only

**Answer:**

**Question 16:**  
What makes an executive dashboard effective?

- A) Complex technical metrics

- B) Simple KPIs with clear trend indicators and action items

- C) Historical data only

- D) Detailed transaction lists

**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 80%, you will have demonstrated:

- ✅ End-to-end process analysis using real table relationships

- ✅ Data quality validation with business-relevant checks

- ✅ Performance monitoring with meaningful metrics

- ✅ Team/agent performance analysis with actionable insights

- ✅ Governance systems with escalation frameworks

- ✅ Executive reporting with clear business impact

- ✅ Alert systems with specific action recommendations

- ✅ Recovery tracking with progress measurement

## STUDY RECOMMENDATIONS

1. **Practice with table relationships** - understand how customers connect to loans, loans to payments, etc.

2. **Master data quality validations** - real businesses need clean, reliable data

3. **Focus on business impact** - every query should answer "so what?" for the business

4. **Get comfortable with performance metrics** - executives need clear, actionable insights

5. **Understand escalation frameworks** - problems need clear resolution paths

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

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