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AI-generated content may be incorrect.SQL ASSESSMENT WORKBOOK V3 Step-4: Building Competitive Advantage from Crisis**

**EduFin SQL Competitive Edge Workbook: A Practical Guide to Risk Management, Data Quality, and Strategic Differentiation with SQL**

**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 empower participants to transform crisis-driven insights into sustainable competitive advantages using SQL-driven strategies. Learners will gain expertise in designing risk management queries, implementing advanced data quality checks, and monitoring regulatory compliance. They will also build operational metrics, benchmarking systems, and executive-ready reports that enhance decision-making, enabling organizations to strengthen resilience and achieve strategic differentiation.

# SQL Skill Check Assessment – Pretraining Workbook

## PART A: Query Writing (60 points)

**Question 1 (10 points)**  
Create a comprehensive risk assessment dashboard that shows risk distribution across customer segments, geographic regions, and loan categories with actionable risk ratings.

**Your Answer:**

**Question 2 (10 points)**  
Build a data quality monitoring query that validates critical business rules and provides data quality scores for each major data category.

**Your Answer:**

**Question 3 (10 points)**  
Design a regulatory compliance report that shows compliance status across multiple regulatory requirements with clear pass/fail indicators.

**Your Answer:**

**Question 4 (10 points)**  
Create an SLA performance dashboard that tracks processing times, compliance rates, and performance ratings by institution and loan category.

**Your Answer:**

**Question 5 (10 points)**  
Build a competitive advantage analysis that compares your organization's key metrics against industry benchmarks and identifies strategic differentiators.

**Your Answer:**

**Question 6 (10 points)**  
Design a strategic action planning template that prioritizes initiatives based on current performance gaps and potential competitive impact.

**Your Answer:**

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

**Question 7:**  
Which approach provides the most comprehensive risk assessment?

- A) Single-factor risk scoring

- B) Multi-dimensional risk with weighted scores

- C) Historical default rate analysis

- D) Income-based risk categories

**Answer:**

**Question 8:**  
What is the primary purpose of data quality frameworks?

- A) Improve query performance

- B) Ensure accurate business decisions

- C) Reduce storage costs

- D) Simplify reporting

**Answer:**

**Question 9:**  
Which metric is most critical for regulatory compliance monitoring?

- A) Portfolio size limits

- B) Processing time averages

- C) Customer satisfaction scores

- D) Revenue growth rates

**Answer:**

**Question 10:**  
What makes SLA monitoring effective?

- A) Daily reporting frequency

- B) Complex calculation formulas

- C) Clear targets and automated tracking

- D) Historical trend analysis

**Answer:**

**Question 11:**  
Which element is essential for competitive advantage analysis?

- A) Internal metrics only

- B) Industry benchmarking and positioning

- C) Historical performance data

- D) Cost reduction targets

**Answer:**

**Question 12:**  
What is the key characteristic of strategic reporting templates?

- A) Technical complexity

- B) Executive-level clarity and actionability

- C) Detailed operational metrics

- D) Historical trend analysis

**Answer:**

**Question 13:**  
Which validation rule prevents the most critical data quality issues?

- A) Format validation

- B) Range validation

- C) Business logic validation

- D) Referential integrity validation

**Answer:**

**Question 14:**  
What is the primary benefit of early warning systems?

- A) Reduced reporting complexity

- B) Proactive risk prevention

- C) Lower operational costs

- D) Improved customer satisfaction

**Answer:**

**Question 15:**  
Which factor is most important in SLA target setting?

- A) Historical averages

- B) Customer expectations and business requirements

- C) System capabilities

- D) Competitive benchmarks

**Answer:**

**Question 16:**  
What makes a competitive advantage sustainable?

- A) Cost reduction

- B) Technology implementation

- C) Systematic process excellence

- D) Market share growth

**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:

- ✅ Advanced risk management system design

- ✅ Data quality framework implementation

- ✅ Regulatory compliance monitoring capabilities

- ✅ SLA-based operational excellence tracking

- ✅ Strategic reporting and dashboard creation

- ✅ Competitive advantage analysis methodology

- ✅ Strategic action planning and prioritization

- ✅ Executive-level communication skills

## STUDY RECOMMENDATIONS

1. **Master multi-dimensional risk assessment** - competitive advantage requires sophisticated risk management

2. **Practice data quality validation patterns** - data excellence is a key differentiator

3. **Understand compliance monitoring systems** - regulatory excellence prevents costly violations

4. **Get comfortable with SLA frameworks** - operational excellence drives customer satisfaction

5. **Focus on strategic communication** - executive reports must be clear and actionable

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

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