WAY TOO SHORT. MOST COULD HAVE FINISHED IN 10 MINS. Next semester should be nearly twice as long.

Name: TAYLOR'S RUBRIC Student ID: :)

ECON 0150 | MiniExam 2 | Version A

This MiniExam will take 16 minutes with a quick break to follow. MiniExams are designed to both test your knowledge and challenge you to apply familiar concepts in new environments. Treat it as if you're trying to show me that you understand the material. Answer clearly, completely, and concisely.

12 pts

Academic Conduct Code

The following academic conduct code is designed to protect the integrity of your work. Print your name/initials beside the three academic honesty agreements. I pledge to my fellow students, the university, and the instructor, that:

____ I will complete this MiniExam solely using my own work.
____ I will not use any digital resources unless explicitly allowed by the instructor.
____ I will not communicate directly or indirectly with others during the MiniExam.

20 pts

Q1. Calculate Grouping Results (see Table 1)

After grouping the subscription data by Plan_Type and calculating MAX Monthly_Revenue:

8 **How many rows will the output have?** 3

6 **What will be the maximum monthly revenue for Premium?**
[45] [65] [75] [85]

6 **If we instead calculated the SUM, which plan type would have the LOWEST total?**
[Basic] [Standard] [Premium]

Be careful here, trust for students who get the first part wrong, they shouldn't lose all points on the later parts of Q1. Errors should not carry forward.

20 pts

Q2. Apply Filter and Aggregate (see Table 2)

Fill in the exact result of the following operations using the product inventory data:

1. Filter for Stock_Level <= 50
2. Group by Category
3. Calculate MEAN Price for each group (round to nearest dollar)

Category	Mean_Price
Electronics	35 ← 5
Home	39
↑ 10	↑ 9

Similar to Q1, errors should not carry forward. If they didn't get Category correct, try to understand the mean price, and give partial credit.

18 pts **Q3. Identify Filtered Rows (see Table 3)**

Given the airline flights data, which rows remain after applying:
Filter: (Delay_Minutes > 15) AND (Distance_Miles < 1000)

Circle the Flight_IDs that would remain in the filtered dataset:

[F001] [F002] (**[F003]**) [F004] (**[F005]**) [F006]

3 3 3 3 3 3

Points per row.

10 pts **Q4. Construct a Filter Expression (no table needed)**

Write out an expression using the following operations to find all students who either failed (Grade < 60) OR have perfect attendance (Absences == 0).

1. (Grade < 60)
2. (Absences == 0)
3. (Grade >= 60)
4. (Absences > 0)

1 OR 2

give partial credit to answers that use this structure but add 3 or 4.

20 pts **Q5. Analyse a Filter (see Table 5)**

The bank wants to identify problematic accounts that meet BOTH criteria:

1. Account is either overdrawn (Balance < 0) OR inactive (Last_Transaction > 90 days ago)
2. Account does NOT have premium status (Status != 'Premium')

8 **How many accounts meet these criteria?** 2

6 **What is the LOWEST balance among the accounts that meet these criteria?** -100

6 **If we removed the Status requirement, how many accounts would be included?** 6