Name: S	tudent ID:
ECON 0150 MiniEx	xam 2 Demo
This MiniExam will take 16 minutes with a quick break to follow edge and challenge you to apply familiar concepts in new environce you understand the material. Answer clearly, completely, and contains the completely of the compl	onments. Treat it as if you're trying to show me that
Academic Conduct Code	
The following academic conduct code is designed to protect the is side the three academic honesty agreements. I pledge to my fellowers	• • •
I will complete this MiniExam solely using my own work I will not use any digital resources unless explicitly allowed I will not communicate directly or indirectly with others during	-
Q1. Trace the Filter Operation (see Table 1)	
Given the bookstore sales data, which rows remain after applying Filter: (Price < 30) OR (Category == 'Fiction')	g:
Circle the Book_IDs that would remain in the filtered dataset:	
[B001] [B002] [B003] [B004] [B005] [B006]	
Q2. Multi-Step Data Operation (see Table 2)	
Fill in the exact result of the following operations using the restau	urant ratings data:
1. Filter for Rating >= 4	
2. Group by Cuisine	
3. Count rows in each group	
Cuisine	Count
	_
	_
	_

Q3. Build the Correct Filter

Find all transactions from the weekend with amounts between \$50 and \$200. Write out the correct expression using the following operations.

- 1. (Amount >= 50)
- 2. (Day == 'Saturday')
- 3. (Amount <= 200)
- 4. (Day == 'Sunday')

Q4. Understanding Transformations (see Table 4)

The delivery company wants to compare driver efficiency across regions with different wage levels. They have: Deliveries_per_hour, Local_minimum_wage. Circle the best transformation and explain why in ONE sentence:

- a) Deliveries_per_hour + Local_minimum_wage
- b) Deliveries_per_hour Local_minimum_wage
- c) Deliveries_per_hour / Local_minimum_wage
- d) Deliveries_per_hour * Local_minimum_wage

Q5. Predict the Grouping Output (see Table 5)

After grouping t	he emplove	e data by De	epartment and	calculating MEI	DIAN Salary:

How many rows will the output have? _____

What will be the median salary for Sales?

[52,000] [55,000] [58,000] [60,000]

Which aggregation would give Sales the HIGHEST value?

[mean] [median] [min] [max] [sum]

Data Tables

Table 1: Bookstore Sales

Book_ID	Category	Price
B001	Fiction	24.99
B002	Non-Fiction	34.99
B003	Fiction	18.50
B004	Textbook	89.00
B005	Textbook	25.00
B006	Non-Fiction	28.75

Table 2: Restaurant Ratings

Restaurant_ID	Cuisine	Rating
R001	Italian	4.5
R002	Thai	3.8
R003	Italian	4.2
R004	Mexican	3.5
R005	Thai	4.7
R006	Mexican	4.1

Table 3: Customer Ages

Customer_ID	Age
C001	twenty-five
C002	32 years
C003	N/A
C004	45

Table 4: Delivery Efficiency

Region	Deliveries_per_hour	Local_minimum_wage
Downtown	3.2	\$15
Suburbs	4.8	\$12
Rural	2.4	\$10

Table 5: Employee Salaries

Emp_ID	Department	Salary
E001	Sales	52,000
E002	Tech	75,000
E003	Sales	60,000
E004	Tech	82,000
E005	Sales	55,000
E006	Admin	48,000