

Name: _____

Student ID: _____

ECON 0150 | MiniExam 1 | Version A

This MiniExam will take 20 minutes. For each dataset, identify its dimensions and select an appropriate visualization. Answer clearly and concisely. Data tables are provided on pages 3-4.

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:

- ____ Complete this MiniExam solely using my own work.
 - ____ Not use any digital resources unless explicitly allowed.
 - ____ Not communicate directly or indirectly with others during the MiniExam.
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Q1. Customer satisfaction survey results (see Table 1)

a) Identify the data dimensions:

- Data Structure: _____
- Variable Type(s): _____
- Number of Variables: _____

b) Draw or describe an appropriate visualization to the right →

Q2. City population across multiple years (see Table 2)

a) Identify the data dimensions:

- Data Structure: _____
- Variable Type(s): _____
- Number of Variables: _____

b) Draw or describe an appropriate visualization to the right →

Q3. Housing prices and square footage (see Table 3)

a) Identify the data dimensions:

- Data Structure: _____
- Variable Type(s): _____
- Number of Variables: _____

b) Draw or describe an appropriate visualization to the right →

Q4. Weekly unemployment claims (see Table 4)

a) Identify the data dimensions:

- Data Structure: _____
- Variable Type(s): _____
- Number of Variables: _____

b) Draw or describe an appropriate visualization to the right →

Q5. Loan approval decisions (see Table 5)

a) Identify the data dimensions:

- Data Structure: _____
- Variable Type(s): _____
- Number of Variables: _____

b) Draw or describe an appropriate visualization to the right →

Q6. Test scores by school district (see Table 6)

a) Identify the data dimensions:

- Data Structure: _____
- Variable Type(s): _____
- Number of Variables: _____

b) Draw or describe an appropriate visualization to the right →

Data Tables

Table 1: Customer Satisfaction Survey

Response_ID	Satisfaction_Level
R001	Very Dissatisfied
R002	Satisfied
R003	Neutral
R004	Very Satisfied
...	...

Table 2: City Population Data

Year	Pittsburgh	Cleveland	Buffalo
2018	302,407	385,525	256,304
2019	300,286	381,009	255,284
2020	302,971	372,624	256,902
2021	304,391	367,991	254,479
...

Table 3: Housing Market Data

House_ID	Square_Feet	Sale_Price
H001	1,250	185,000
H002	2,100	315,000
H003	1,800	268,000
H004	950	142,000
...

Table 4: Weekly Unemployment Claims

Week_Ending	Initial_Claims
2025-01-06	245,000
2025-01-13	238,000
2025-01-20	251,000
2025-01-27	242,000
2025-02-03	235,000
2025-02-10	229,000
2025-02-17	233,000
...	...

Table 5: Loan Application Outcomes

Application_ID	Decision
L001	Approved
L002	Denied
L003	Approved
L004	Approved
...	...

Table 6: Standardized Test Performance

School_ID	District	Math_Score
S001	North Hills	78.5
S002	City Center	65.2
S003	North Hills	81.3
S004	West County	72.8
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