

# Quiz on data mining

**Due** May 5 at 11:59pm

**Points** 100

**Questions** 10

**Available** after Apr 27 at 12am

**Time Limit** None

**Allowed Attempts** 2

## Attempt History

	Attempt	Time	Score
KEPT	<a href="#">Attempt 2</a>	2 minutes	90 out of 100
LATEST	<a href="#">Attempt 2</a>	2 minutes	90 out of 100
	<a href="#">Attempt 1</a>	18 minutes	90 out of 100

Score for this attempt: **90** out of 100

Submitted Apr 29 at 5:55pm

This attempt took 2 minutes.

### Question 1

10 / 10 pts

Consider the following transactions.

Transaction ID	Items Bought
2000	A, B, C
3000	B, E
1000	A, B, C
4000	A, D, E
5000	B, E, F

What is the relative support for frequent itemset {E}? Enter your answer as a number between 0 and 1 and round to 2 decimals places (e.g., 0.67).

Correct!

0.6

Correct Answers

0.6 (with margin: 0)

## Question 2

10 / 10 pts

Consider the following transactions.

Transaction ID	Items Bought
2000	A, B, C
3000	B, E
1000	A, B, C
4000	A, D, E
5000	B, E, F

What is the relative support for frequent itemset {B}? Enter your answer as a number between 0 and 1 and round to 2 decimals places (e.g., 0.67).

Correct!

0.8

Correct Answers

0.8 (with margin: 0)

## Question 3

10 / 10 pts

Consider the following transactions.

Transaction ID	Items Bought
2000	A, B, C
3000	B, E

1000	A, B, C
4000	A, D, E
5000	B, E, F

What is the relative support for frequent itemset {B, E}? Enter your answer as a number between 0 and 1 and round to 2 decimals places (e.g., 0.67).

Correct!

0.4

Correct Answers

0.4 (with margin: 0)

#### Question 4

10 / 10 pts

Consider the following transactions.

Transaction ID	Items Bought
2000	A, B, C
3000	B, E
1000	A, B, C
4000	A, D, E
5000	B, E, F

What is the confidence of B → E? Enter your answer as a number between 0 and 1 (e.g., 0.8).

Correct!

0.5

Correct Answers

0.5 (with margin: 0)

#### Question 5

10 / 10 pts

Consider the following transactions.

Transaction ID	Items Bought
2000	A, B, C
3000	B, E
1000	A, B, C
4000	A, D, E
5000	B, E, F

What is the confidence of  $E \rightarrow B$ ? Enter your answer as a number between 0 and 1 and round to 2 decimals places (e.g., 0.67).

Correct!

0.67

Correct Answers

0.67 (with margin: 0)

### Question 6

10 / 10 pts

Consider the following transactions.

Transaction ID	Items Bought
2000	A, B, C
3000	B, E
1000	A, B, C
4000	A, D, E
5000	B, E, F

If  $\text{minsup}=0.4$ , how many frequent 1-itemsets are there?

Correct!

4

A: 3/5

B: 4/5

C: 2/5

D: 1/5

E: 3/5

F: 1/5

{A}, {B}, {C}, {E}

Correct Answers

4 (with margin: 0)

### Question 7

10 / 10 pts

Consider the following transactions.

Transaction ID	Items Bought
2000	A, B, C
3000	B, E
1000	A, B, C
4000	A, D, E
5000	B, E, F

If minsup=0.4, how many frequent 2-itemsets are there?

Correct!

4

AB: 2/5

AC: 2/5

AE: 1/5

BC: 2/5

BE: 2/5

CE: 0/5

{AB}, {AC}, {BC}, {BE}

Correct Answers

4 (with margin: 0)

### Question 8

10 / 10 pts

Consider the following transactions.

Transaction ID	Items Bought
2000	A, B, C
3000	B, E
1000	A, B, C
4000	A, D, E
5000	B, E, F

If minsup=0.4, how many frequent 3-itemsets are there?

Correct!

1

ABC:2/5

{ABC}

Correct Answers

1 (with margin: 0)

### Question 9

0 / 10 pts

Consider the following transactions.

Transaction ID	Items Bought
2000	A, B, C
3000	B, E
1000	A, B, C
4000	A, D, E
5000	B, E, F

If minsup=0.4, how many closed patterns (itemsets) are there?

You Answered

4

Correct Answers

5 (with margin: 0)

### Question 10

10 / 10 pts

Consider the following transactions.

Transaction ID	Items Bought
2000	A, B, C
3000	B, E
1000	A, B, C
4000	A, D, E

5000

B, E, F

If minsup=0.4, how many max patterns (itemsets) are there?

Correct!

2

closed patterns are

{A}: 3/5

{B}: 4/5

{E}: 3/5

{BE}: 2/5

{ABC}: 2/5

max patterns are

{BE}, {ABC}

Correct Answers

2 (with margin: 0)

Quiz Score: **90** out of 100