

# W05 - Quiz

- Due Feb 6 at 4pm
- Points 20
- Questions 10
- Available until Feb 6 at 4pm
- Time Limit None
- Allowed Attempts 2

## Instructions

1. Take the quiz first by yourself in class.
2. Take the quiz as a group.

There are only 2 attempts. Your final score will be an average of the two scores.

This quiz was locked Feb 6 at 4pm.

## Attempt History

	Attempt	Time	Score
LATEST	<a href="#">Attempt 2</a>	2 minutes	20 out of 20
	<a href="#">Attempt 1</a>	6 minutes	18 out of 20

Score for this attempt: 20 out of 20

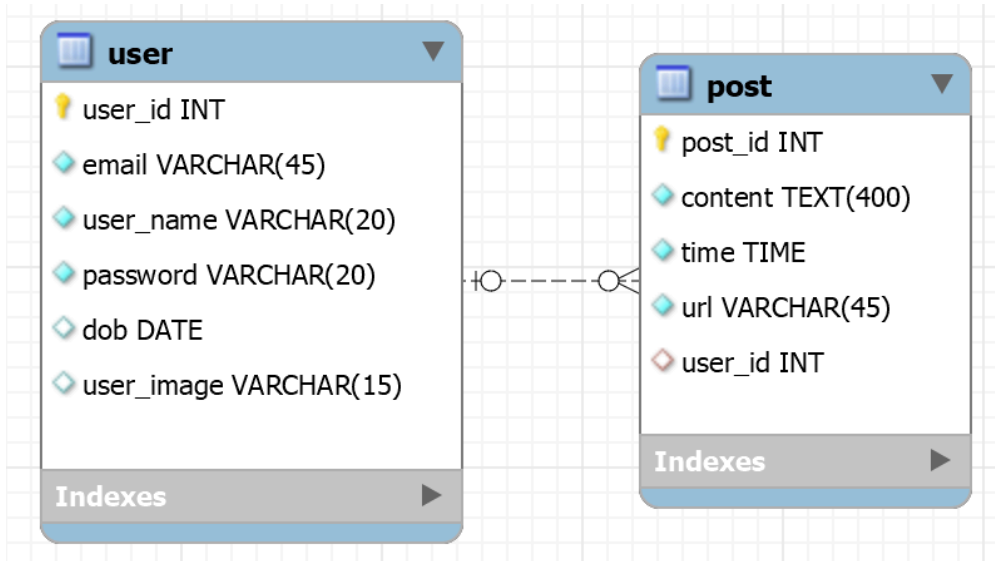
Submitted Feb 6 at 2:48pm

This attempt took 2 minutes.



Question 1

2 / 2 pts



The post\_id attribute in the post table is an auto-incrementing number that the database guarantees is unique for each post. This means that within the post table, the post\_id is what? (Check all that apply.)

☐ natural key

Correct!

☒ surrogate key

Correct!

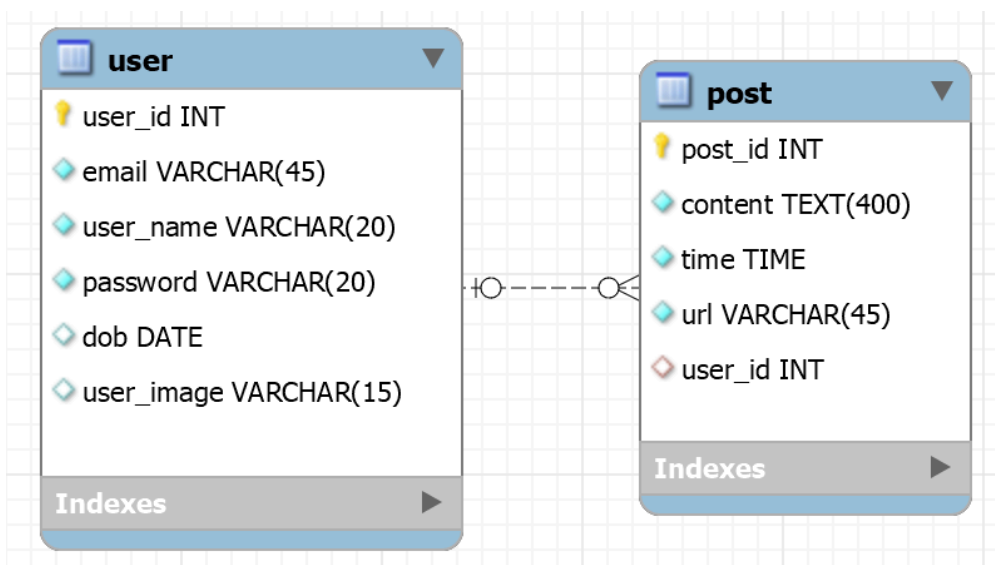
☒ primary key

☐ foreign key



Question 2

2 / 2 pts



The database may store many posts from a single user. This means that within the post table, the user\_id attribute is what? (Check all that apply.)

☐ composite key

☐ primary key

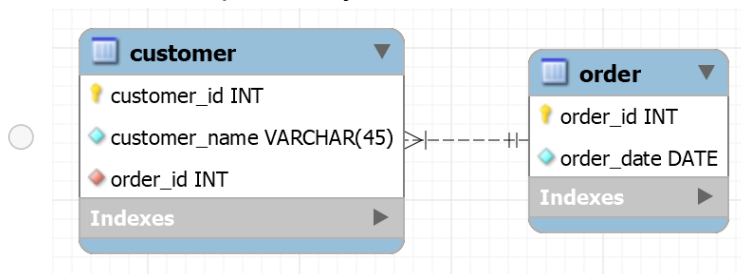
Correct!

☒ foreign key

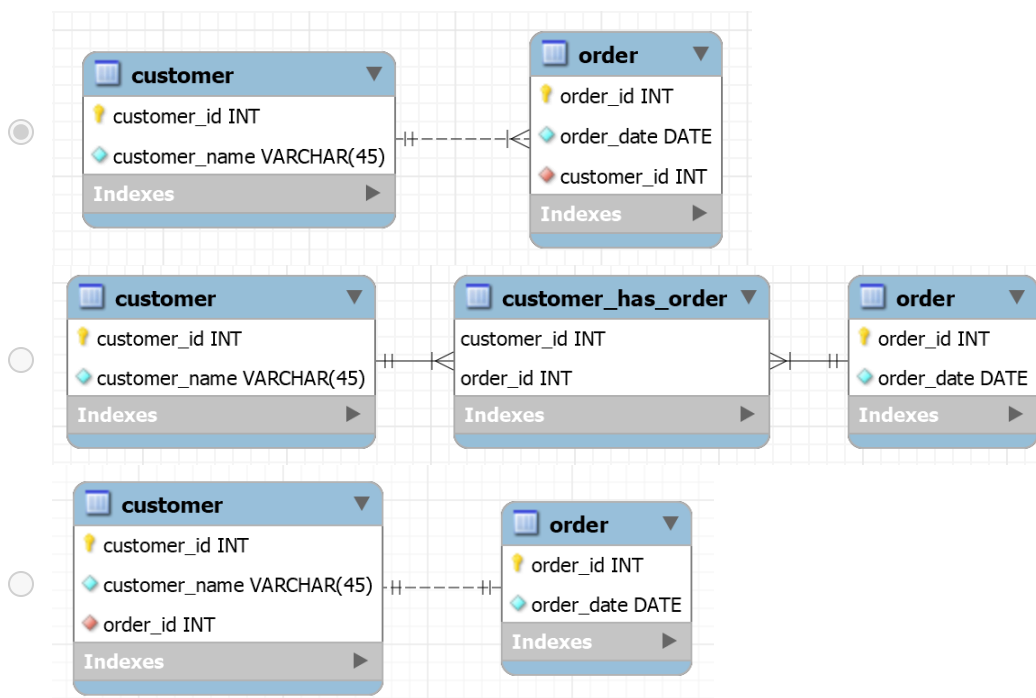

## Question 3

2 / 2 pts

Which of the following diagrams best represents the relationship between a table of customers and a table of orders placed by a customer?



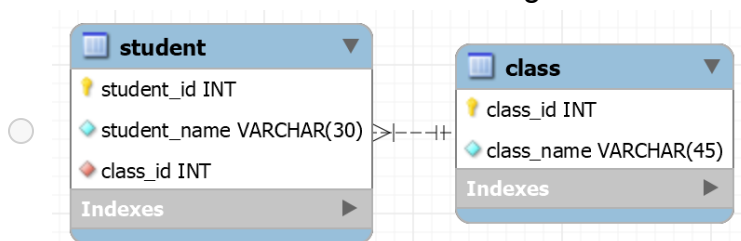
Correct!

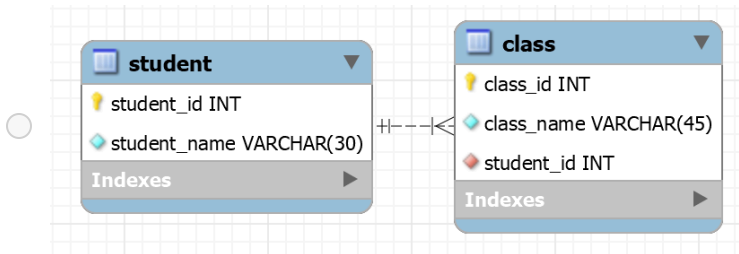


## Question 4

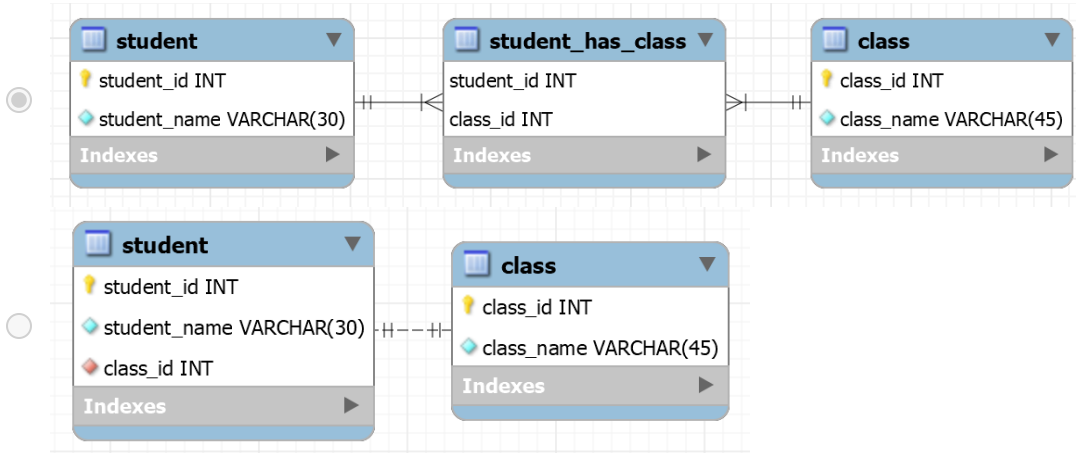
2 / 2 pts

Which of the following diagrams best represents the relationship between a table of students and a table of classes for which the student is registered?





Correct!



### Question 5

2 / 2 pts

With database design, the goal is to organize the data in such a way that \_\_\_\_\_ is minimized.

Correct!

- ☒ redundancy
- ☐ normalization
- ☐ the statement of work
- ☐ the scope



### Question 6

2 / 2 pts

In relational database design, a many-to-many relationship must be resolved into 2 \_\_\_\_\_ relationships.

- ☐ one-to-one

Correct!

- ☒ one-to-many
- ☐ many-to-many
- ☐ none-to-many



### Question 7

2 / 2 pts

Each table in a database should represent...

- ☐ every entity in the database
- ☐ two related entities

Correct!

- ☒ one real world entity



### Question 8

2 / 2 pts

What is true of an ISBN number for books? (Check all that apply)

Correct!

- ☒ It would make a good primary key for a table containing books

- ☐ It is a surrogate key

Correct!

- ☒ It is a natural key
- ☐ It would not make a good primary key for a table containing books



### Question 9

2 / 2 pts

Consider this relational database entity:

Title	Year Released	Genre
Toy Story	1995	Family, Animated
Toy Story 2	1999	Family, Animated
Mr. Bean's Holiday	2007	Comedy
The Empire Strikes Back	1977	Sci Fi

Which normal form does the entity violate?

Correct!

- ☒ first
- ☐ second
- ☐ third
- ☐ Boyce Codd



### Question 10

2 / 2 pts

Typically, most database designers consider a database structure normalized if it's in the \_\_\_\_\_ normal form.

☐ first

☐ second

**Correct!**

☒ third

☐ Boyce Codd

**Quiz Score: 20 out of 20**

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