

W03 Quiz: Database Design and Creation

- Fecha de entrega 25 de ene en 23:59
- Puntos 38
- Preguntas 19
- Disponible hasta el 8 de feb en 23:59
- Límite de tiempo Ninguno
- Intentos permitidos 3

Instrucciones

Purpose: Test your understanding of database creation and population principles.

Task: After you have completed all the activities for the week, take this quiz.

Conditions: This quiz is closed book and closed note. You should not look at any course materials or websites while taking this quiz.

[Volver a realizar el examen](#)

Historial de intentos

	Intento	Hora	Puntaje
MÁS RECIENTE	Intento 1	17 minutos	32 de 38

❗ Las respuestas correctas están ocultas.

Puntaje para este intento: 32 de 38

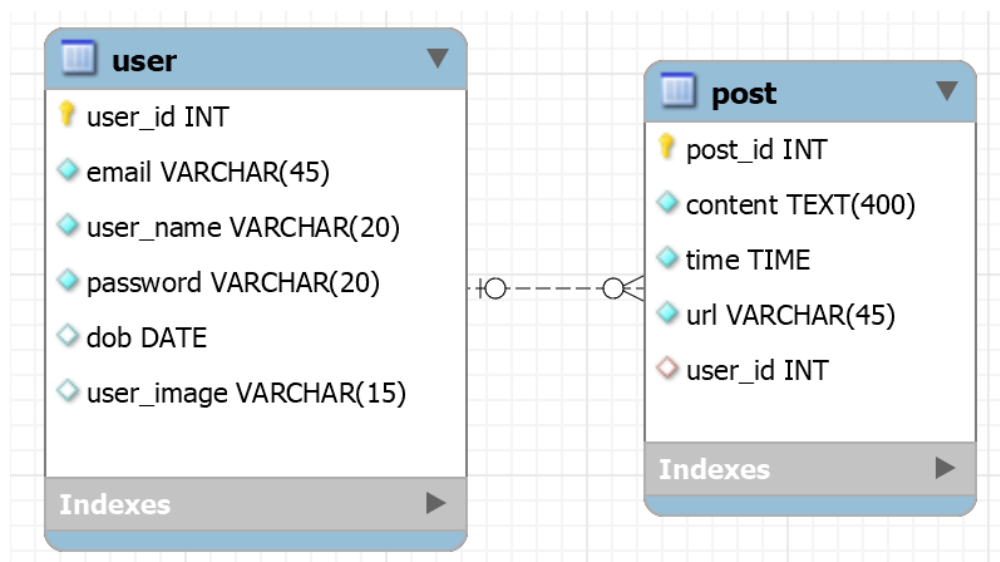
Entregado el 5 de feb en 0:35

Este intento tuvo una duración de 17 minutos.



Pregunta 1

2 / 2 pts



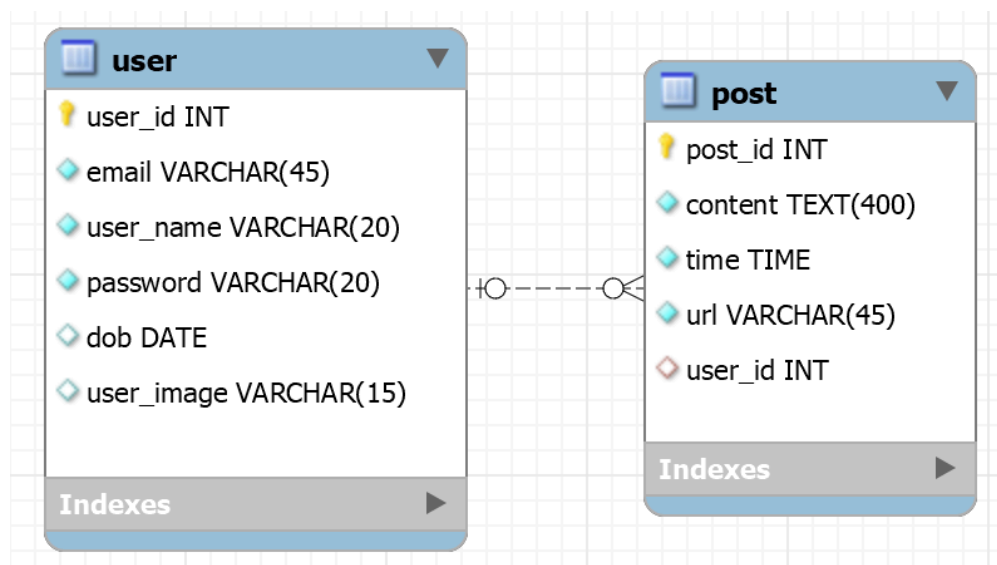
The `post_id` attribute in the `post` table is an auto-incrementing number that the database guarantees is unique for each post. This means that within the `post` table, the `post_id` is what? (Check all that apply.)

- ☒ Primary key
- ☐ Foreign key
- ☒ Surrogate key
- ☐ Natural key



Pregunta 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.)

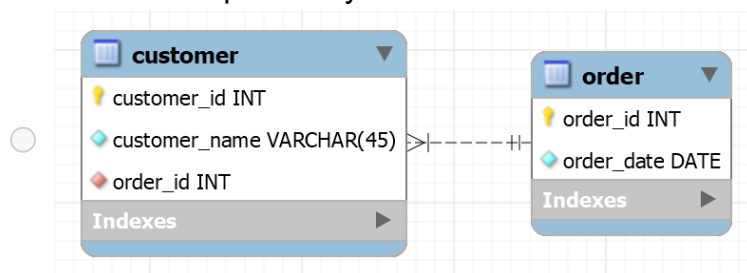
- ☐ Composite key
- ☐ Primary key
- ☒ Foreign key

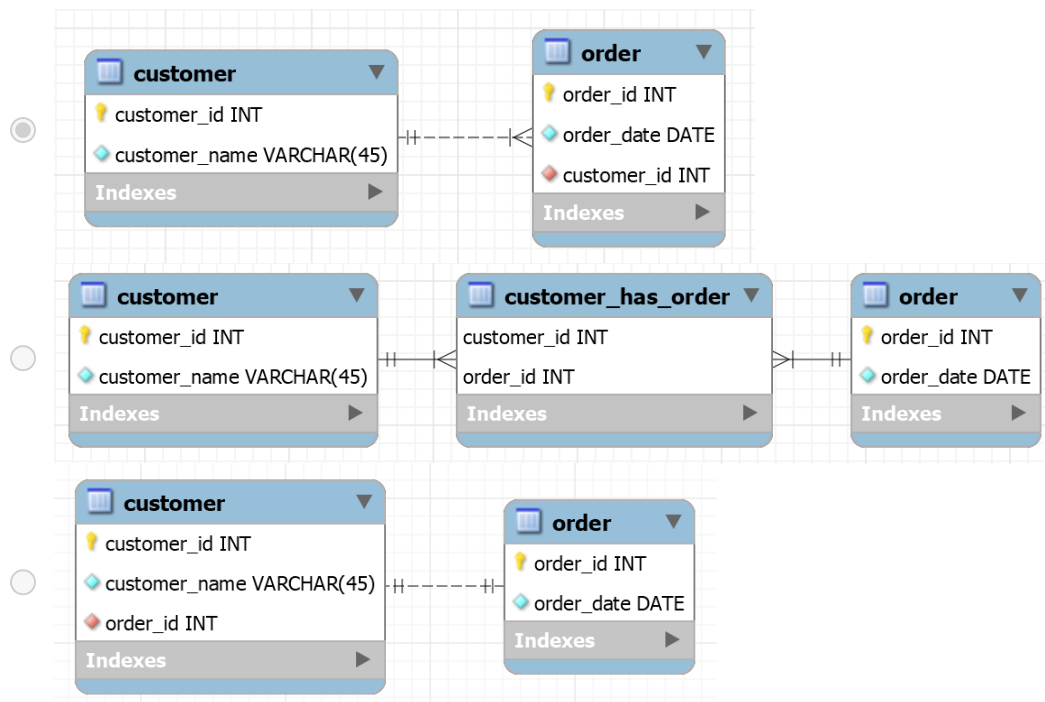


Pregunta 3

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?

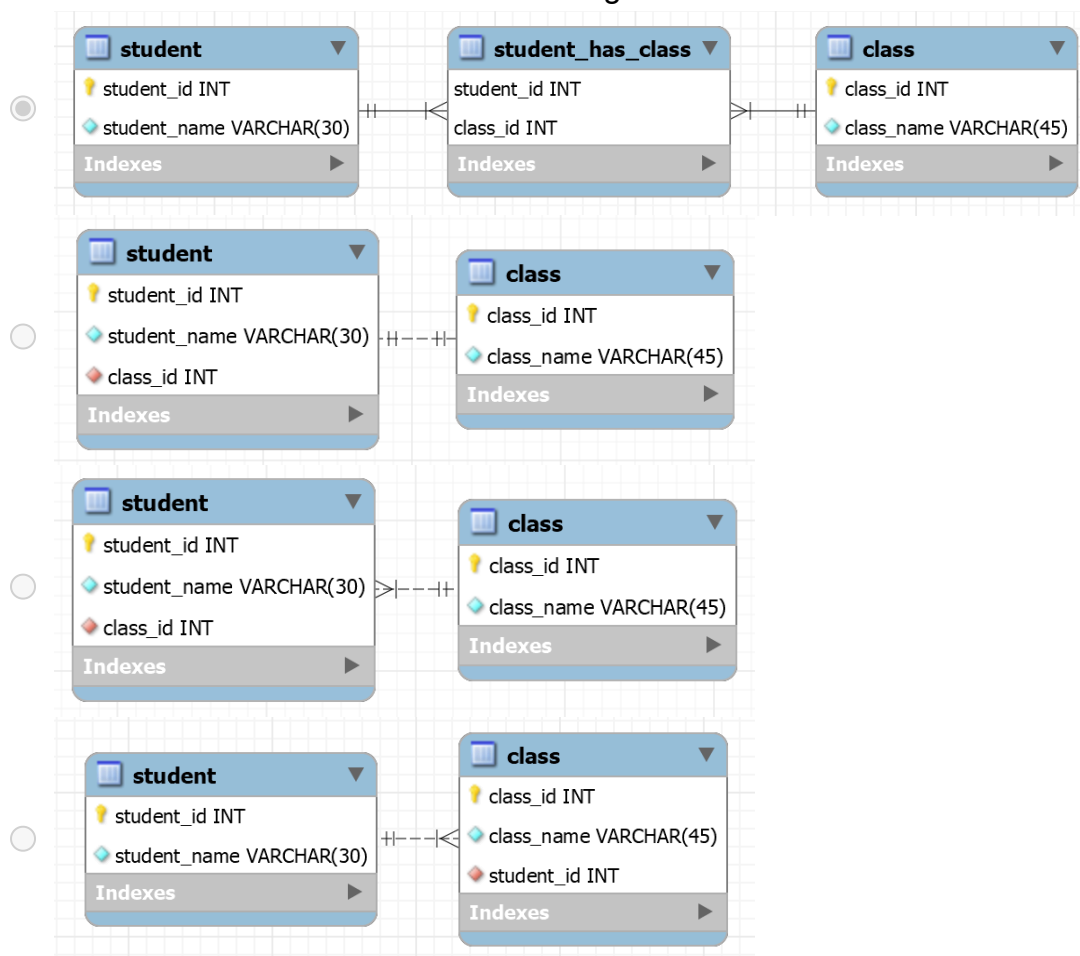




Pregunta 4

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?



Pregunta 5

2 / 2 pts

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

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



Pregunta 6

2 / 2 pts

In relational database design, a many-to-many relationship must be resolved into two _____ relationships.

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



Pregunta 7

2 / 2 pts

Each table in a database should represent _____.

- ☐ two related entities
- ☒ one real world entity
- ☐ every entity in the database



IncorrectoPregunta 8

0 / 2 pts

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

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



IncorrectoPregunta 9

0 / 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?

- ☐ Third
- ☐ First
- ☒ Second
- ☐ Boyce Codd



Pregunta 10

2 / 2 pts

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

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



Pregunta 11

2 / 2 pts

What is the SQL keyword that adds rows to a table?

- ☐ DELETE
- ☐ UPDATE
- ☒ INSERT
- ☐ ADD



Pregunta 12

2 / 2 pts

What does the following code create if run:

```
CREATE TABLE employee (
    emp_no INT NOT NULL AUTO_INCREMENT,
    last_name VARCHAR(25) NOT NULL,
    first_name VARCHAR(30) NOT NULL,
```

PRIMARY KEY(emp_no));

- ☒ An employee table with three columns that will require a value.
- ☐ An employee schema with three tables.
- ☐ An employee table with three columns plus a fourth column for the primary key.
- ☐ An employee database with four total columns.



Pregunta 13

2 / 2 pts

Assuming that all of the table and column names are spelled correctly, what's wrong with the INSERT statement that follows?

INSERT INTO invoices

**(vendor_id, invoice_number, invoice_total, payment_total, credit_total,
terms_id, invoice_date, invoice_due_date)**

VALUES

(97, '456789', 8344.50, 0, 0, 1, '2012-08-31')

- ☐ The column names in the column list are in the wrong sequence.
- ☐ There are too few items in the column list.
- ☐ There are too many values where the values are listed.
- ☒ The number of items in the column list doesn't match the number of values in the VALUES list.



Pregunta 14

2 / 2 pts

When you code a column list in an INSERT statement, you can omit columns with default values and columns that allow _____ values.

- ☒ NULL
- ☐ multiple
- ☐ STRING
- ☐ INT



Pregunta 15

2 / 2 pts

If you code a column list in an INSERT statement that includes a column that's defined with a default value, you can insert the default value for that column by coding the _____ keyword in the VALUES clause of the INSERT statement.

- ☐ AI
- ☐ AUTO
- ☐ NULL
- ☒ DEFAULT



Pregunta 16

2 / 2 pts

When you code a DELETE statement for one or more rows, the _____ clause specifies which row or rows are to be deleted.

- ☐ HAVING
- ☐ ALTER
- ☐ ON
- ☒ WHERE



Pregunta 17

2 / 2 pts

With the code:

```
UPDATE movie
```

```
SET title = "Finding Nemo";
```

What's will happen to each row of the table?

- ☐ Nothing, you will get an error because you forgot a WHERE clause.
- ☐ The database movie will get a new table called title with the value of 'Finding Nemo'.
- ☐ The first row of the table will have the movie title changed to 'Finding Nemo'.
- ☒ Every movie title will be changed to 'Finding Nemo'.



Pregunta 18

2 / 2 pts

What does the DROP command do in this code?

```
DROP TABLE movie;
```

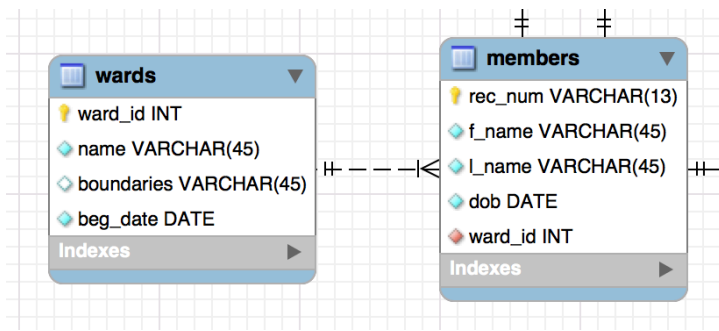
- ☐ Deletes the data in the movie table leaving it an empty table.
- ☒ Deletes not only the data in the movie table, but the table definition as well—the entire table.
- ☐ Drops the rows in the movie table according to certain criteria.
- ☐ Drops the last row of the current table.



IncorrectoPregunta 19

0 / 2 pts

If I want to delete a ward row in the ward table, but the related table Members have members from that ward; (in other words, the primary key of that ward is used as a foreign key of the members table) what has to happen first before I can delete that ward?



- ☒ The foreign key column must be removed from the members table.
- ☐ New members must be added to that ward.
- ☐ The members table must be deleted.
- ☐ All the members of that ward must be deleted first.

Puntaje del examen: 32 de 38

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