mcq - db os - 25-feb-2023

Upskill India Jan 2023 Program.

Total points **7/25** ?

0 of 0 points

I swear on my country (motherland), I swear on my mother tongue, I swear on my family, *
that I will take this test sincerely and honestly.

(Icon created by kosonicon - Flaticon)

◉ I SWEAR.

Enter your registered email as per enrollment in Open Mentor portal or Naan Mudhalvan *
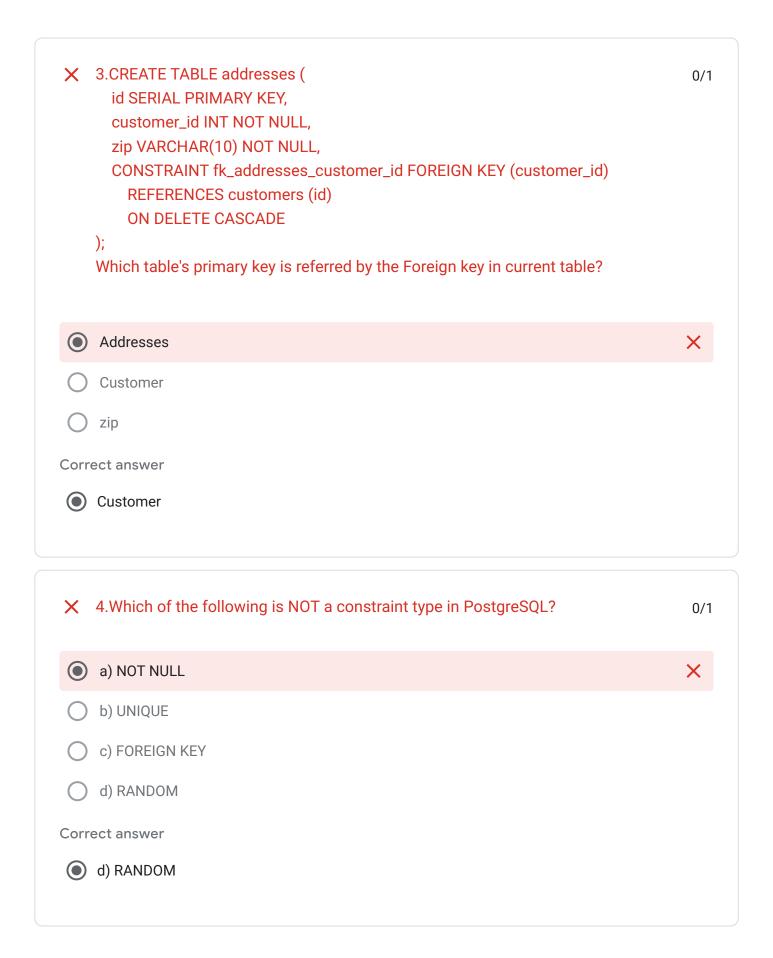Portal

n/a

Enter your Naan Mudhalvan Id, if applicable. Otherwise, enter N/A *

n/a

DB OS

✕ 1. CREATE TABLE orders (
    id SERIAL PRIMARY KEY,
    customer_id INT NOT NULL,
    total DECIMAL NOT NULL CHECK (total > 0)
);
Which of the following statements is true in above query?

0/1

◉ a. The id column is a foreign key constraint. ✕

◯ b. The customer_id column is a primary key.

◯ c. The total column has a check constraint to ensure that it is greater than zero.

Correct answer

◉ c. The total column has a check constraint to ensure that it is greater than zero.

✓ 2,CREATE TABLE books (
    id SERIAL,
    title VARCHAR(100) NOT NULL,
    author VARCHAR(100) NOT NULL,
    release_date DATE NOT NULL,
    CONSTRAINT pk_books PRIMARY KEY (id)
);

Which of the following statements is true from the above query?

1/1

◉ a. The id column is a Primary key constraint. ✓

◯ b. The title column is a primary key.

◯ c. The author column is a unique constraint.

✕ 3.CREATE TABLE addresses (0/1
    id SERIAL PRIMARY KEY,
    customer_id INT NOT NULL,
    zip VARCHAR(10) NOT NULL,
    CONSTRAINT fk_addresses_customer_id FOREIGN KEY (customer_id)
        REFERENCES customers (id)
        ON DELETE CASCADE
);
Which table's primary key is referred by the Foreign key in current table?

◉ Addresses   ✕

◯ Customer

◯ zip

Correct answer

◉ Customer

✕ 4.Which of the following is NOT a constraint type in PostgreSQL? 0/1

◉ a) NOT NULL   ✕

◯ b) UNIQUE

◯ c) FOREIGN KEY

◯ d) RANDOM

Correct answer

◉ d) RANDOM

✗ 5. Which data type in PostgreSQL starts at 1 and increments by 1 for each new row? 0/1

○ a) INT ✗

○ b) VARCHAR

○ C) SERIAL

Correct answer

● C) SERIAL

✓ 6. Which WHERE clause operator is used to check if a value is equal to another value? 1/1

● a) = ✓

○ b) !=

○ c) <

✗ 7. Which WHERE clause operator is used to check if a value is not equal to another value? 0/1

● a) = ✗

○ b) !=

○ c) <

Correct answer

● b) !=

✓ 8.Which logical operator is used to combine multiple conditions and requires all conditions to be true to return a result? 1/1

◉ a) AND ✓

○ b) OR

○ c) NOT

✗ 9.Which logical operator is used to negate a condition? 0/1

◉ a) AND ✗

○ b) OR

○ c) NOT

Correct answer

◉ c) NOT

✗ 10.Which logical operator is used to combine multiple conditions and requires at least one condition to be true to return a result? 0/1

◉ AND ✗

○ OR

○ NOT

Correct answer

◉ OR

11. Which of the following is NOT a valid option for the ORDER BY clause in PostgreSQL?

0/1

- ⊙ NULLS FIRST ✕
- ○ DESC
- ○ ASC
- ○ UNIQUE

Correct answer

- ⊙ UNIQUE

12. Which of the following is true about the LIMIT?

1/1

- ⊙ a) LIMIT controls the number of rows returned in the result set. ✓
- ○ b) It orders the result set.
- ○ c) It filters with condition.

13.Which of the following constraints ensures that all values in a column are unique?

0/1

- ⊙ a) CHECK constraint ✕
- ○ b) PRIMARY KEY constraint
- ○ c) UNIQUE constraint

Correct answer

- ⊙ c) UNIQUE constraint

14. Which of the following constraints ensures that a column cannot have NULL values?

✗ **0/1**

- ◉ a) CHECK constraint ✗
- ○ b) PRIMARY KEY constraint
- ○ c) UNIQUE constraint
- ○ d) NOT NULL

Correct answer

- ◉ d) NOT NULL

15. Which of the following constraints ensures that a value in a column must satisfy a specified condition?

✓ **1/1**

- ◉ a) CHECK constraint ✓
- ○ b) PRIMARY KEY constraint
- ○ c) UNIQUE constraint

✕ 16.Which of the following constraints is used to enforce a relationship between two 0/1
tables?

○ a) CHECK constraint ✕

○ b) PRIMARY KEY constraint

○ c) UNIQUE constraint

○ d) FOREIGN KEY constraint

Correct answer

● d) FOREIGN KEY constraint

✕ 17.Which of the following is NOT a constraint in PostgreSQL? 0/1

● a) DEFAULT constraint ✕

○ b) INDEX constraint

○ c) primary key constraint

○ d) VALID constraint

Correct answer

● d) VALID constraint

18. What is a serial in Postgres?

✗   0/1

- ◉ a. A column or set of columns that uniquely identifies each row in a table.   ✗
- ○ b. A column or set of columns that can be null.
- ○ c. A column or set of columns that has a default value.
- ○ d. A special data type that automatically generates a unique value for each new row in a table.

Correct answer

- ◉ d. A special data type that automatically generates a unique value for each new row in a table.

19. What happens when multiple columns are specified in the ORDER BY clause and no sorting direction is specified for any of them?

✓   1/1

- ◉ a. All columns are sorted in ascending order   ✓
- ○ b. All columns are sorted in descending order
- ○ c. The query produces an error

20.Which type of chart is best for displaying a single data series over time?

✗   0/1

- ◉ A) Bar chart   ✗
- ○ B) Stacked chart
- ○ D) Line chart

Correct answer

- ◉ D) Line chart

✗ 21. Which of the following is not a type of constraint in PostgreSQL?

0/1

- ◉ a. CHECK ✗
- ○ b. UNIQUE
- ○ c. MAX
- ○ d. FOREIGN KEY

Correct answer

- ◉ c. MAX

✗ 22.CREATE TABLE students (
id SERIAL PRIMARY KEY,
name VARCHAR(100) NOT NULL,
age INT NOT NULL,
grade VARCHAR(10) CHECK (grade IN ('A', 'B', 'C'))
);
Which of the following is True in above query?

0/1

- ◉ a. The id column is a unique constraint. ✗
- ○ b. The age column has a check constraint to ensure that it is greater than zero
- ○ c. The grade column has a check constraint to ensure that it allows only 3 grades.

Correct answer

- ◉ c. The grade column has a check constraint to ensure that it allows only 3 grades.

✓ 23. We add data to PostgreSQL by using which statement?   1/1

- ⦿ insert   ✓
- ○ add
- ○ delete
- ○ update

✗ 24. ALTER TABLE table DROP CONSTRAINT constraint_name; Below command is used to?   0/1

- ⦿ Add the constraint   ✗
- ○ Drop the existing constraint
- ○ Alter the column constraint

Correct answer

- ⦿ Drop the existing constraint

✗ 25.How is the interquartile range (IQR) calculated in a box and whisker plot?   0/1

- ⦿ a) Subtract the minimum value from the maximum value   ✗
- ○ b) Subtract the first quartile from the third quartile
- ○ c) Add the first quartile to the third quartile

Correct answer

- ⦿ b) Subtract the first quartile from the third quartile

Google Forms