



## T-SQL (15 puntos):

Responda y explique su respuesta en inglés para cada una de las siguientes preguntas, de forma clara y concisa.

1. ¿Which of these commands is used to change a substring in a string?

- a. REPLICATE
- b. REPLACE**
- c. CHARINDEX
- d. STUFF
- e. SUBSTRING

The **REPLACE** command is used to replace all occurrences of a specific substring within a string with another substring.

2. The Car table is defined by this statement:

```
CREATE TABLE Car
( Id bigint NOT NULL,
  Brand varchar(50) NOT NULL,
  Model varchar(50) NOT NULL,
  Color varchar(15) NOT NULL,
  CHECK (Color in ('blue','red','yellow','black','green','silver')), PRIMARY KEY (Id)
)
```

¿Which of these commands won't fail?

- a. INSERT INTO Car (Id, Brand, Model)  
VALUES (2, 'KIA', 'Sportage')
- b. INSERT INTO Car (Id, Brand, Color, Model)  
VALUES (2, 'KIA', 'purple', 'Sportage')
- c. INSERT INTO Car (Brand, Model, Color, Id)  
VALUES ('KIA', 'Sportage', 'silver', 1)**
- d. INSERT INTO Car (Id, Brand, Model, Color)  
VALUES ('c2', 'KIA', 'Sportage', 'red')

This command is the only one that won't fail because it provides values for all required columns (Id, Brand, Model, Color), and the provided color is within the allowed set specified in the **CHECK** clause.

3. ¿What does the following statement do?

```
SELECT * INTO table2 FROM table1 WHERE 1 = 2
```

- a. Nothing. It's useless.
- b. Creates table2 according to table1 and copies all data from table1 to table2.**
- c. Creates table1 according to table2 and copies all data from table2 to table1.
- d. Creates table2 according to table1 without data.

This statement creates a new table (table2) with the same structure as table1 but without copying any data because the condition `WHERE 1 = 2` is always false.

4. The result of the following sentence is (0):

```
SELECT 1/2
```

¿How could you modify it so that it provides the correct mathematical result?

**To get the correct mathematical result, you can convert one of the numbers to a decimal or floating-point data type.**

**Modifying the statement to `SELECT 1.0 / 2` or `SELECT CAST(1 AS FLOAT) / 2` will provide the correct result (0.5) instead of (0).**

Idioma Inglés (0 puntos):

Por favor indique, de 1 a 5, su nivel de:

- Lectura en inglés. 2
- Escritura en inglés. 2
- Conversación en inglés. 2

¡Buen pulso y buena suerte!