2023

GLA 4 DAY 2 SQL ASSIGNMENT

INTERVIEW QUESTIONS

PEACE LAWSON

1. **THE DIFFERENT KINDS OF RELATIONSHIPS IN SQL WITH EXAMPLES**

- **One to one**. For example, a student and their student ID, employee and National insurance number.
- **One to many**. For example, a city with different customers.
- **Many to many**. For example, an employee can call many customers, one teacher can have many students.

2. **WHAT IS NORMALIZATION**
Database normalization is the process of restructuring a relational database in accordance with a series of so-called normal forms in order to reduce data redundancy and improve data integrity.

3. **MODIFY QUERY TO SHOW THE POPULATION OF GERMANY**.

SELECT population FROM world
WHERE name = 'France'

Answer;
SELECT population FROM world
WHERE country = 'Germany'

4. **SELECT THE QUERY WHICH GIVES THE NAME OF COUNTRIES BEGINNING WITH U.**

```
SELECT name FROM world WHERE name LIKE '%U'
SELECT name FROM world WHERE name LIKE '%u%'
SELECT name FROM world WHERE name LIKE 'U%'
```

Answer;
```
SELECT name FROM world WHERE name LIKE 'U%'
```

5. **SELECT THE ANSWER WHICH SHOWS THE PROBLEM WITH THIS SQL CODE- THE INTENDED RESULT SHOULD BE THE CONTINENT OF FRANCE:**

```
SELECT continent FROM world WHERE 'name' = 'France'
```

   a.   continent should be 'continent'
   b.   'name' should be name
   c.   'France' should be "France"
   d.   'France' should be France
   e.   'France' should be France

Answer;
b. 'name' should be name

6. **SELECT THE CODE WHICH SHOWS THE COUNTRIES THAT END IN A OR L.**

```sql
SELECT name FROM world WHERE name LIKE 'a%' AND name LIKE 'l%'
SELECT name FROM world WHERE name LIKE 'a%' OR name LIKE 'l%'
SELECT name FROM world WHERE name LIKE '%a' AND name LIKE '%l'
SELECT name FROM world WHERE name LIKE '%a' OR 'l%'
SELECT name FROM world WHERE name LIKE '%a' OR name LIKE '%l'
```

Answer;

```sql
SELECT name FROM world WHERE name LIKE '%a' OR name LIKE '%l'
```

7. **GIVEN THE TABLE ON THE LEFT, SELECT THE QUERY WHICH PRODUCES TABLE ON THE RIGHT.**

Some questions concerning basic SQL statements

name	region	area	population	gdp
Afghanistan	South Asia	652225	26000000	
Albania	Europe	28728	3200000	6656000000
Algeria	Middle East	2400000	32900000	75012000000
Andorra	Europe	468	64000	
...				

name	population
Bahrain	1234571
Swaziland	1220000
Timor-Leste	1066409

```sql
FROM world SELECT name, population BETWEEN 1000000 AND 1250000
```

```sql
FROM name, population FROM world WHERE population BETWEEN 1000000 AND 1250000 SELECT world
```

```sql
SELECT name, population FROM world WHERE population BETWEEN 1000000 AND 1250000
```

Answer;

```sql
SELECT name, population FROM world WHERE population BETWEEN 1000000 AND 1250000
```