

# Interview questions

## SQL



# List the different types of relationships in SQL and give examples.

There are 3 main types of relationship in a database:

one-to-one

one-to-many

many-to-many.

What are the types of relationship in database?

# What is Normalization?

Normalization is the process of organizing data in a database. It includes creating tables and establishing relationships between those tables according to rules designed both to protect the data and to make the database more flexible by eliminating redundancy and inconsistent dependency.

# Query

Modify query to show the population of Germany.

```
SELECT population FROM world  
WHERE name = 'Germany'
```

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

# Query

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 %'
```

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

## Query

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'
```

```
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

# Query

Select the code which shows the countries that end in A or 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 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'
```

# Query

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	
...				

Given the table on the left, select the query which produces this table below.

name	population
Bahrain	1234571
Swaziland	1220000
Timor-Leste	1066409

```
SELECT name,  
population FROM world  
WHERE population BETWEEN  
1000000 AND 1250000 is the correct answer
```

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

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

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