

MYSQL ASSIGNMENT

SABINA

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Task 1

Using count, get the number of cities in the USA

A screenshot of a computer

Description automatically generated

Before doing the task, I use “World” database. In this task I was asked to find out the number of cities in the USA. I used Count function to count the number of city ID and “where” clause to define the country Code that equals to “USA”. There are 274 cities in the USA

Task 2

Find out what the population and average life expectancy for people in Argentina (ARG) is.A screenshot of a computer

Description automatically generated

To do this task I retrieved population, life expectancy, name from “Country” table and used where clause to sort data for country name.

Task3

Using ORDER BY, LIMIT, what country has the highest life expectancy?

A screenshot of a computer

Description automatically generated

I used “Country” table to answer this task by retrieving name, life expectancy and then ordered by life expectancy in descending order, following Limit clause to get the country with the highest life expectancy.

Task 4

Create a SQL statement to display columns Id, Name, Population from the city table and limit results to first 10 rows only.

A screenshot of a computer

Description automatically generated

I used the 'City' table, selecting the ID, name, and population columns. The results were then limited to 10, as seen in the screenshot.

Task5

Select 25 cities around the world that start with the letter 'F' in a single SQL query.

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Description automatically generated

I used city table sorted city names which starts “`F” and limited the result to 25.

Task6

Create a SQL statement to find only those cities from city table whose population is larger than 2000000.

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Description automatically generated

Task7

Create a SQL statement to find all city names from city table whose name begins with “Be” prefix.

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Description automatically generated

Task8

Create a SQL statement to find only those cities from city table whose population is

between 500000-1000000.

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Description automatically generated

Task9

Create a SQL statement to find a city with the lowest population in the city table.

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Description automatically generated

Task10.

Bonus 1

Create a SQL statement to find the capital of Spain (ESP).​

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Description automatically generated

In this bonus task I used inner join to join city and country tables on their common column and sorted the result based on the name city.

Bonus 2

Create a SQL statement to list all the languages spoken in the Caribbean region.​

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Description automatically generated

Bonus3

Create a SQL statement to find all cities from the Europe continent.

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Description automatically generated

# Creating EER diagram

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Description automatically generated

In this diagram we can see how tables connected to each other based on primary and foreign key.

**1. Identify the primary key in country table.**

Primary key in the Country table is Code column.

**2.Identify the primary key in city table.**

ID column is PK in city table.

**3. Identify the primary key in countrylanguage table.**

Language column is PK in countrylanguage table.

**4. Identify the foreign key in city table.**

CountryCode is FK in city table.

**5. Identify the foreign key in countrylanguage table.**

CountryCode column is FK.