## **Homework: Databases**

Problems for homework for the "Software Technologies" course @ Software University Submit this document as your homework

## 1. Address Table

You will create a table named 'addresses', insert data, and run a few queries on https://db-fiddle.com. Choose MySQL 8.0 as the engine.

- 1. **CREATE TABLE** named 'addresses' with the following columns:
  - street\_number
  - street name
  - area
  - town
  - district
  - country
  - continent
  - isCapital

```
1 CREATE TABLE address (
    id INT PRIMARY KEY AUTO INCREMENT,
    street_number VARCHAR(10),
3
4 street_name VARCHAR(100),
    area VARCHAR(100),
5
    town VARCHAR(100),
6
    district VARCHAR(100),
7
    country VARCHAR(100),
    continent VARCHAR(100),
9
     isCapital BOOLEAN
10
11 );
```















2. INSERT records INTO the 'addresses' table and execute the SQL query:

```
INSERT INTO address (street_number, street_name, area, town, district, country, continent, isCapital)
VALUES
('10', 'Main Street', 'Downtown', 'New York City', 'Manhattan', 'United States', 'North America', false),
('25A', 'Elm Avenue', 'West End', 'London', 'Westminster', 'United Kingdom', 'Europe', true),
('7', 'Rue de la Paix', 'Le Marais', 'Paris', 'Ile-de-France', 'France', 'Europe', true),
('1234', 'Oak Lane', 'Green Meadows', 'Los Angeles', 'California', 'United States', 'North America', false),
('42', 'High Street', 'City Center', 'Sydney', 'New South Wales', 'Australia', 'Australia & Oceania', false),
('56B', 'Maple Road', 'Northside', 'Toronto', 'Ontario', 'Canada', 'North America', false),
('9', 'Kaiserstrasse', 'Mitte', 'Berlin', 'Berlin', 'Germany', 'Europe', true),
('17', 'Plaza Mayor', 'Centro', 'Madrid', 'Madrid', 'Spain', 'Europe', true),
('3', 'Piazza San Marco', 'San Marco', 'Venice', 'Veneto', 'Italy', 'Europe', false),
('1001', 'Avenida Paulista', 'Jardins', 'Sao Paulo', 'Sao Paulo', 'Brazil', 'South America', false),
('8/15', 'Princes Street', 'New Town', 'Edinburgh', 'Edinburgh', 'United Kingdom', 'Europe', false),
('27', 'Koningsplein', 'Centrum', 'Amsterdam', 'North Holland', 'Netherlands', 'Europe', true),
('42A', 'Hauptstrasse', 'Mitte', 'Vienna', 'Vienna', 'Austria', 'Europe', true),
('100', 'Collins Street', 'CBD', 'Melbourne', 'Victoria', 'Australia', 'Oceania', false),
('123', 'Rua da Boavista', 'Baixa', 'Porto', 'Porto', 'Portugal', 'Europe', false),
('5', 'Knez Mihailova', 'Stari Grad', 'Belgrade', 'Belgrade', 'Serbia', 'Europe', true),
('9876', 'Ginza', 'Chuo', 'Tokyo', 'Tokyo', 'Japan', 'Asia', true),
('18', 'Connell Street', 'North City', 'Dublin', 'Dublin', 'Ireland', 'Europe', true),
('75C', 'Friedrichstrasse', 'Kreuzberg', 'Berlin', 'Berlin', 'Germany', 'Europe', true),
('22', 'Gran Vía', 'Malasana', 'Madrid', 'Madrid', 'Spain', 'Europe', true);
```

- 3. Your task is to execute the proper queries in order to get the following results:
  - NOTE: Create queries for each condition and place a screenshot after each query!
  - SELECT all addresses from the 'addresses' table that are located in a capital city.

Your screenshot here...







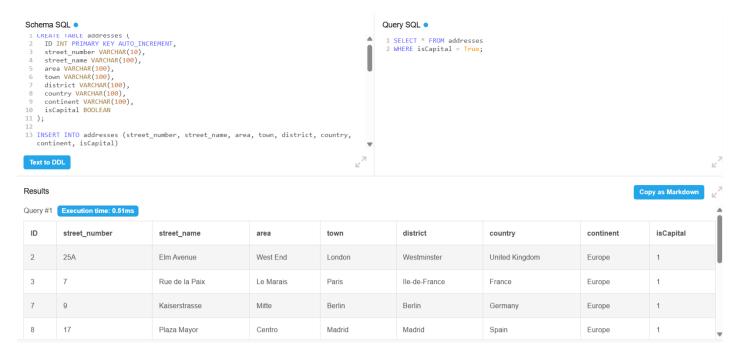












SELECT all addresses from the 'addresses' table that are located in South America.

## Your screenshot here...



SELECT all addresses from the 'addresses' table that are located in Europe, but only in NON Capital cities.

Your screenshot here...

















```
Schema SQL •
                                                                                                                                                                                Query SQL •
  Schema SQL •

1 CREATE LABLE addresses (
2 ID INT PRIMARY KEY AUTO_INCREMENT,
3 street_number VARCHAR(10),
4 street_name VARCHAR(100),
5 anea VARCHAR(100),
6 town VARCHAR(100),
7 district VARCHAR(100),
8 country VARCHAR(100),
9 continent VARCHAR(100),
10 isCapital BOOLEAN
1);
                                                                                                                                                                                  1 SELECT * FROM addresses
2 WHERE continent = 'Europe' AND isCapital = False;
9 continent value.
10 isCapital BOOLEAN
11);
12
13 INSERT INTO addresses (street_number, street_name, area, town, district, country, continent, isCapital)
                                                                                                                                                                                                                                                                                                             Copy as Markdown
Results
Query #1 Execution time: 0.47ms
   ID
                    street_number
                                                                    street_name
                                                                                                                           area
                                                                                                                                                                town
                                                                                                                                                                                                    district
                                                                                                                                                                                                                                       country
                                                                                                                                                                                                                                                                                        continent
                                                                                                                                                                                                                                                                                                                           isCapital
                                                                                                                           San Marco
                                                                    Piazza San Marco
                                                                                                                                                                Venice
                                                                                                                                                                                                    Veneto
                                                                                                                                                                                                                                       Italy
                                                                                                                                                                                                                                                                                        Europe
```

Edinburgh

Porto

Edinburgh

Porto

United Kingdom

Portugal



11

15

8/15

123

Princes Street

Rua da Boavista

New Town

Baixa















0

Europe

Europe