

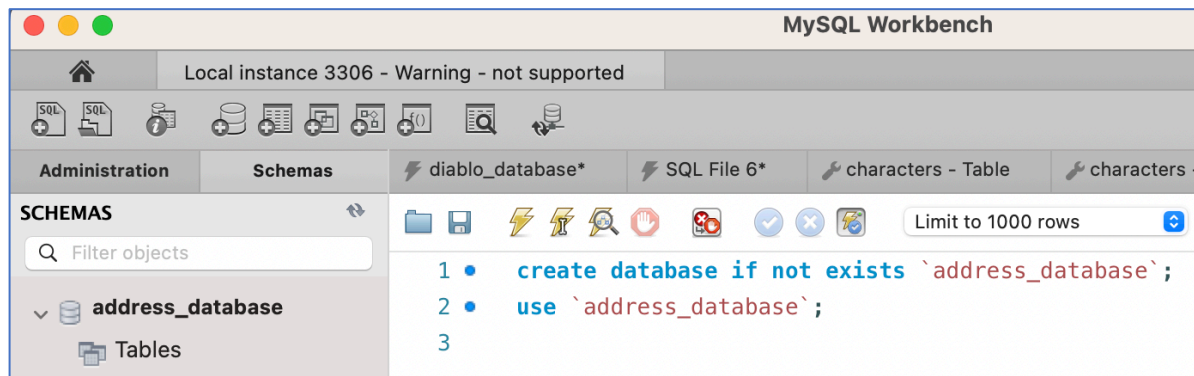
Homework: Databases

Problems for homework for the ["Software Technologies" course @ Software University](#).

Submit this document as your homework.

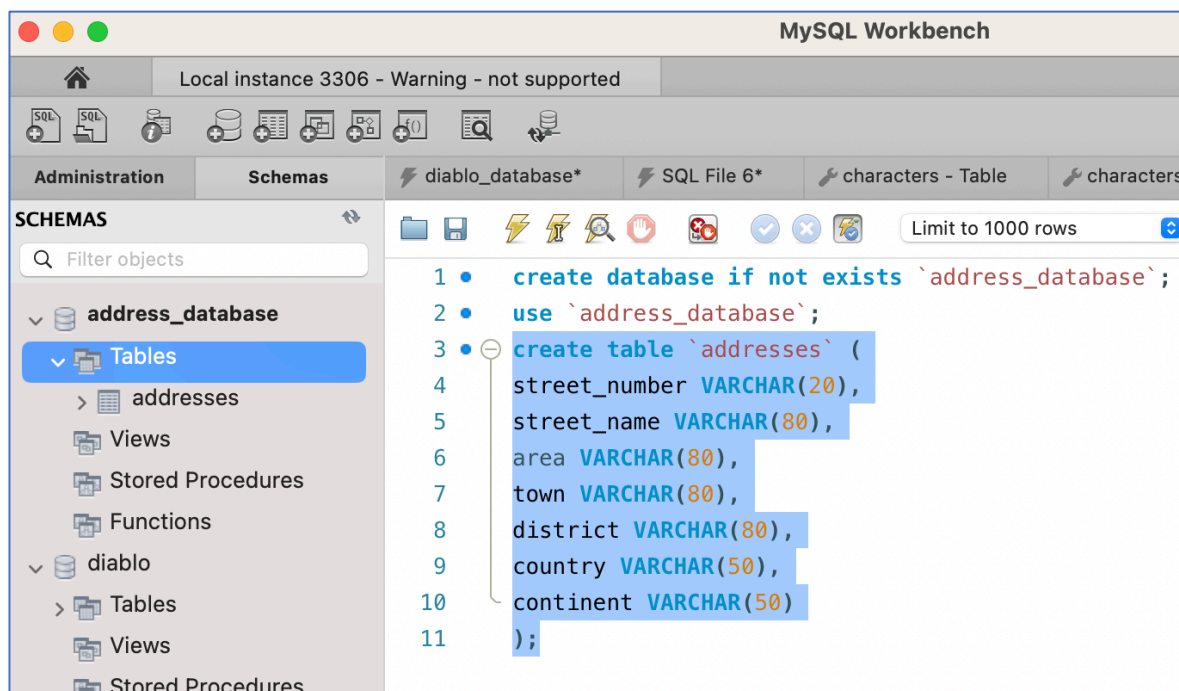
1. Address Database:

1. **CREATE DATABASE** named ``address_database`` and USE it

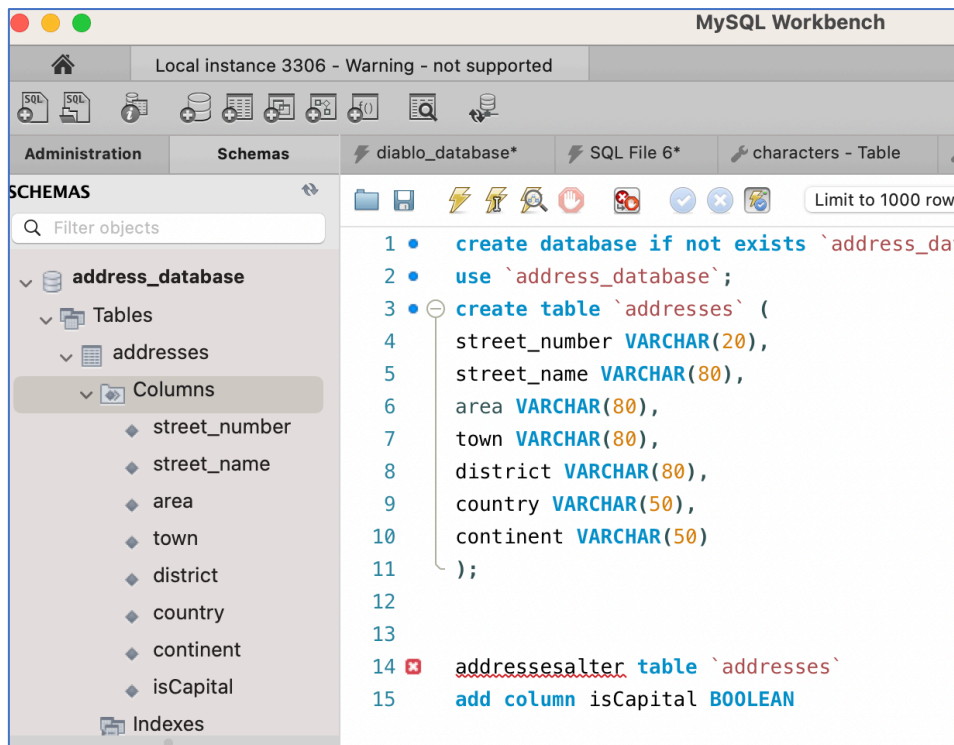


2. **CREATE TABLE** named ``addresses`` with the following columns:

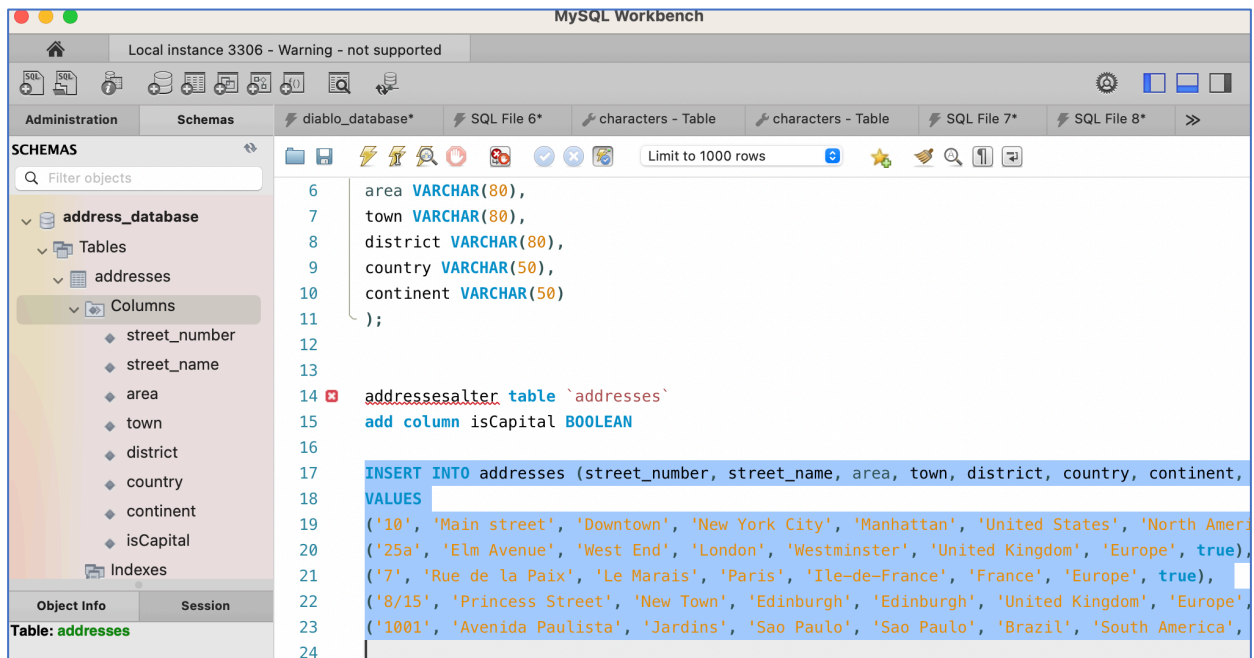
- **street_number**
- **street_name**
- **area**
- **town**
- **district**
- **country**
- **continent**



3. We forgot to add Boolean column, named `isCapital`:



4. **INSERT** records **INTO** the `address` table and execute the SQL query:



5. Your task is to execute the proper queries in order to get the following results:

- **SELECT** all addresses from the `address` table that are located in a capital city.
- **SELECT** all addresses from the `address` table that are located in South America.
- **SELECT** all addresses from the `address` table that are located in Europe, but only in **NON** Capital cities.

MySQL Workbench

Local instance 3306 - Warning - not supported

Administration Schemas diablo_database* SQL File 6* characters - Table characters - Table SQL File 7* SQL File 8* >>

SCHEMAS

Filter objects

address_database

Tables

addresses

Columns

- street_number
- street_name
- area
- town
- district
- country
- continent
- isCapital

Indexes

Limit to 1000 rows

```

17 INSERT INTO addresses (street_number, street_name, area, town, district, country, continent,
18 VALUES
19 ('10', 'Main street', 'Downtown', 'New York City', 'Manhattan', 'United States', 'North America',
20 ('25a', 'Elm Avenue', 'West End', 'London', 'Westminster', 'United Kingdom', 'Europe', true),
21 ('7', 'Rue de la Paix', 'Le Marais', 'Paris', 'Ile-de-France', 'France', 'Europe', true),
22 ('8/15', 'Princess Street', 'New Town', 'Edinburgh', 'Edinburgh', 'United Kingdom', 'Europe',
23 ('1001', 'Avenida Paulista', 'Jardins', 'Sao Paulo', 'Sao Paulo', 'Brazil', 'South America',
24 SELECT* from addresses where isCapital=true

```

100% 44:24 1 error found

Result Grid Filter Rows: Search Export:

street_number	street_name	area	town	district	country	continent	isCapital
25a	Elm Avenue	West End	London	Westminster	United Kingdom	Europe	1
7	Rue de la Paix	Le Marais	Paris	Ile-de-France	France	Europe	1

Result Grid Form Editor

MySQL Workbench

Local instance 3306 - Warning - not supported

Administration Schemas diablo_database* SQL File 6* characters - Table characters - Table SQL File 7* SQL File 8* >>

SCHEMAS

Filter objects

address_database

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addresses

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- street_number
- street_name
- area
- town
- district
- country
- continent
- isCapital

Indexes

Limit to 1000 rows

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21 ('7', 'Rue de la Paix', 'Le Marais', 'Paris', 'Ile-de-France', 'France', 'Europe', true),
22 ('8/15', 'Princess Street', 'New Town', 'Edinburgh', 'Edinburgh', 'United Kingdom', 'Europe',
23 ('1001', 'Avenida Paulista', 'Jardins', 'Sao Paulo', 'Sao Paulo', 'Brazil', 'South America',
24 SELECT* from addresses where continent='South America'

```

100% 55:24 1 error found

Result Grid Filter Rows: Search Export:

street_number	street_name	area	town	district	country	continent	isCapital
1001	Avenida Paulista	Jardins	Sao Paulo	Sao Paulo	Brazil	South America	0

Result Grid Form Editor

Object Info Session

MySQL Workbench

Local instance 3306 - Warning - not supported

Administration Schemas diablo_database* SQL File 6* characters - Table characters - Table SQL File 7* SQL File 8* >>

SCHEMAS

Filter objects

address_database

Tables

addresses

Columns

- street_number
- street_name
- area
- town
- district
- country
- continent

Indexes

Limit to 1000 rows

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17 INSERT INTO addresses (street_number, street_name, area, town, district, country, continent,
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21 ('7', 'Rue de la Paix', 'Le Marais', 'Paris', 'Ile-de-France', 'France', 'Europe', true),
22 ('8/15', 'Princess Street', 'New Town', 'Edinburgh', 'Edinburgh', 'United Kingdom', 'Europe',
23 ('1001', 'Avenida Paulista', 'Jardins', 'Sao Paulo', 'Sao Paulo', 'Brazil', 'South America',
24 SELECT* from addresses where continent='Europe' and isCapital=false

```

100% 68:24 1 error found

Result Grid Filter Rows: Search Export:

street_number	street_name	area	town	district	country	continent	isCapital
8/15	Princess Street	New Town	Edinburgh	Edinburgh	United Kingdom	Europe	0

Result Grid