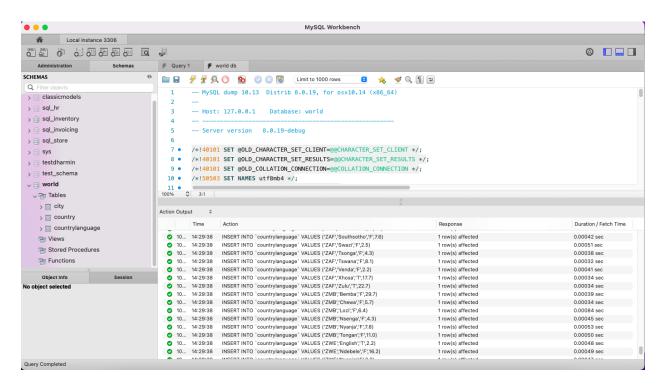
SQL Assignment Part 2 (PPT 2)

Page 1-6 - Info, no actions

Page 7 & 8 Execute script, check 'world' exists.



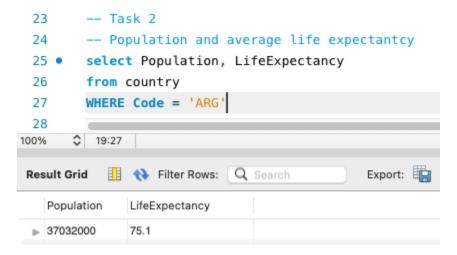
Page 9-10 Info

Page 11 Task 1

Answer 274, number of US cities

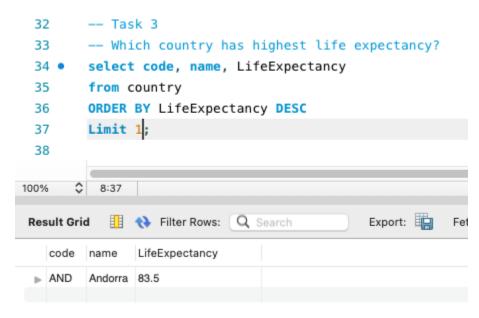
Page 12 Task 2

Population and Average life expectancy for Argentina

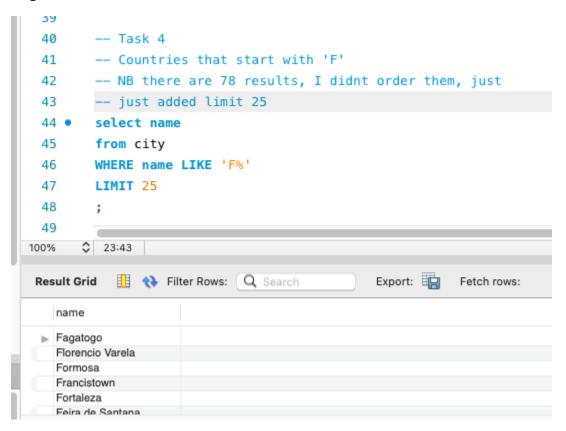


Page 13 Task 3

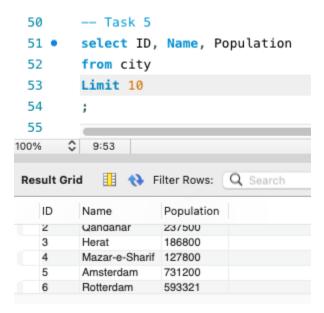
Which country has highest life expectancy?



Page 14 Task 4



Page 15 Task 5



Page 16 Task 6



Page 17 Task 7

```
61
         -- Task 7
         -- City names with 'Be' but eye balling it I saw Be and Be^ accent e.
 62
         -- Just ran 'B%' first. Ok, can see few types of be
 63
         -- Now run multiple where to capture all
 64
         -- Ah, no need, BE captures accent e too. i.e Bechar and Benguela. volo
 65
         select *
 66 •
         from city
 67
         WHERE name LIKE 'Be%'
 68
 69
       ♦ 68:65
100%
           Filter Rows: Q Search
                                                Edit: 🚄 🖶 🖶
                                                                 Export/Import:
Result Grid
   ID
         Name
                    CountryCode District
                                          Population
                                          117162
 ▶ 45
         Béjaïa
                    DZA
                               Béjaïa
   49
         Béchar
                    DZA
                               Béchar
                                          107311
                                          128300
   59
         Benguela
                    AGO
                               Benguela
   93
         Berazategui
                    ARG
                               Buenos Aires
                                          276916
```

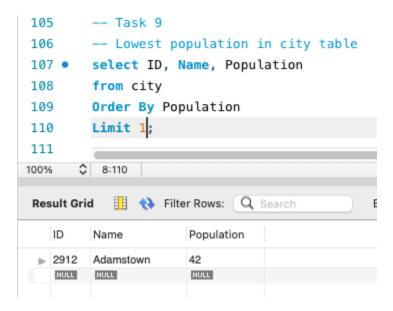
Page 18 Task 8

301 with Two WHERE, 303 with WHERE BETWEEN. Fun!

```
-- Task 8
    -- Pop between 500,000 and 1,000,000
     -- Not sure if its between or two where , so checkcing the difference first.
     -- BETWEEN gave me 303, Two WHERE gave me 301. Hmm investigate
     -- Order by limit 5 then DSC limit 5. See which ones are different
76
     -- Order by and limit, didnt work. So googled it.
77
     -- Between is inclusive i.e 500,000 =< and >= 1,000,000 whereas WHERE is > and <.
    -- So made a query, ran it. This tells you the difference between WHERE and BETWEEN. BOOM! it was Amman and Pointe-Noire
from city
80
81
                where Population = 500000
82
                or population = 1000000
83
84
85
86 • select ID, Name, Population
     where Population between 500000 AND 1000000
89
    Order by Population
91 • select ID, Name, Population
     from city
     where Population > 500000
94
    AND population < 1000000
95 Order by Population
```

Page 19 Task 9

Lowest population in city table



Page 20 BONUS Questions

Capital of Spain

```
Query 1
             world db
                          Assigment_part2*
                                                               🌟 💅 🔍 🖺 🖃
7 F 🙊 🕛
                                       Limit to 10000 rows
112
        -- Task BONUS
113
        -- Capital of Spain
114 •
        select*
115
        from country
        where name = 'united states';
116
117
118 •
        select*
119
        from city
        where ID = '3813';
120
121
122
        select city.name AS 'Capital_of_Country', city.CountryCode, country.name
123 •
        from city
124
        JOIN country
125
        ON city.ID = country.capital
126
        WHERE country.name = 'Spain'
127
128
        ;
129
100%
      1:121
                                              Export:
           III 🔷 Filter Rows: Q Search
Result Grid
   Capital_of_Country
                   CountryCode name
 Madrid
                   ESP
                             Spain
```

Languages in Caribbean

```
131
        -- Page 20 BONUS 2
132
        -- Languages in Caribbean region
133
        -- Explore both tables.
        -- countrylanguage --> CountryCode and country --> Code
134
        -- Extract more columns than you need, sense check
135
136

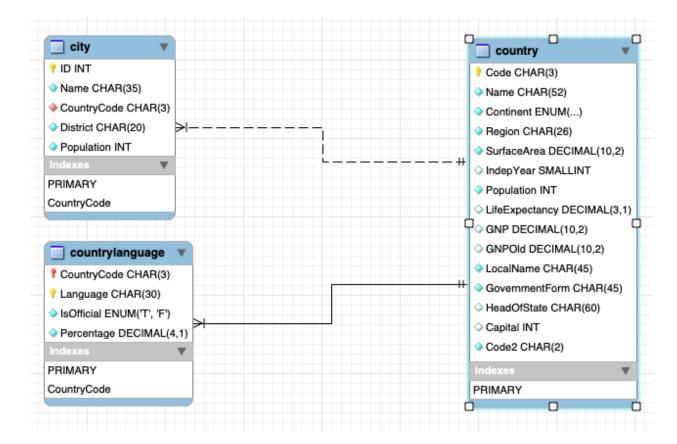
⊝ /*select*

137
        from country;
138
        select*
139
        from countrylanguage;
140
141
        select country.code, country.region, country.Name, countrylanguage.language
142 •
        from country
143
144
        join countrylanguage
145
        ON country.code = countrylanguage.countrycode
146
        WHERE country.region = 'Caribbean'
147
148
149 •
        select DISTINCT countrylanguage.language
150
        from country
151
        join countrylanguage
152
        ON country.code = countrylanguage.countrycode
        WHERE country.region = 'Caribbean'
153
154
155
      $ 35:146
                                            Export:
language
 ▶ Dutch
   English
   Papiamento
   Spanish
   Creole English
   Creole French
   Bajan
   French
   Haiti Creole
   Hindi
```

All cities in European Continent

```
157
           -- Page 20 Bonus 3
 158
           -- All cities in Europe continent
           -- Exploring tables, select* from country; select* from city;
 159
           — found search and result columns; Country.Continent and city.name
 160
           -- Will only join on city.countrycode and country.code
 161
 162
           select city.countrycode, city.name AS 'CityName', country.continent
 163 •
 164
           from country
           join city
 165
           ON country.code = city.countrycode
 166
 167
           WHERE country.continent = 'Europe';
 168
 169
 100%
         $ 5:160
                                                      Export:
  Result Grid
              Filter Rows:
                                  Q Search
     countrycode
                      CityName
                                   continent
     RLH
                      PINSK
                                   Europe
     BLR
                      Orša
                                   Europe
     BLR
                      Mozyr
                                   Europe
    Result 112
Action Output
       Time
                  Action
                                                                 Response
10... 17:41:01
                  select city.countrycode, city.name AS 'CityName', coun... 4086 row(s) returned
10... 17:42:42
                  select city.countrycode, city.name AS 'CityName', coun... 841 row(s) returned
10... 17:43:13
                  select city.countrycode, city.name AS 'CityName', coun... 841 row(s) returned
10... 17:43:43
                  select city.countrycode, city.name AS 'CityName', coun... 841 row(s) returned
  10... 17:43:55
                  select city.countrycode, city.name AS 'CityName', coun... 841 row(s) returned
```

Page 27 EER diagram of World



CODE FROM SQL SCRIPT PASTING IN HERE FOR SAFETY

```
# Task 1 Using count, get number of cities in USA
-- first explore city table
/*
select*
from city
.
```

```
*/
-- we'll need the CountryCode from country table, lets explore country table
/*
select*
from country
*/
-- Country code for United states is USA
/*
select COUNT(*)
from city
where CountryCode = 'USA'
*/
-- Task 2
-- Population and average life expectantcy
/*
select Population, LifeExpectancy
from country
WHERE Code = 'ARG'
*/
-- Task 3
```

```
-- Which country has highest life expectancy?
select code, name, LifeExpectancy
from country
ORDER BY LifeExpectancy DESC
Limit 1
-- Task 4
-- Countries that start with 'F'
-- NB there are 78 results, I didnt order them, just
-- just added limit 25
select name
from city
WHERE name LIKE 'F%'
LIMIT 25
-- Task 5
select ID, Name, Population
from city
Limit 10
-- Task 6
select ID, Name, Population
from city
```

```
where Population > 2000000
-- Task 7
-- City names with 'Be' but eye balling it I saw Be and Be' accent e.
-- Just ran 'B%' first. Ok, can see few types of be
-- Now run multiple where to capture all
-- Ah, no need, BE captures accent e too. i.e Bechar and Benguela. yolo
select *
from city
WHERE name LIKE 'Be%'
-- Task 8
-- Pop between 500,000 and 1,000,000
-- Not sure if its between or two where, so checkcing the difference first.
-- BETWEEN gave me 303, Two WHERE gave me 301. Hmm investigate
-- Order by limit 5 then DSC limit 5. See which ones are different
-- Order by and limit, didnt work. So googled it.
-- Between is inclusive i.e 500,000 = < and >= 1,000,000 whereas WHERE is > and <.
-- So made a query, ran it. This tells you the difference between WHERE and BETWEEN.
BOOM! it was Amman and Pointe-Noire
/*select ID, Name, Population
from city
where Population = 500000
or population = 1000000
```

```
*/
```

```
select ID, Name, Population
from city
where Population between 500000 AND 1000000
Order by Population
select ID, Name, Population
from city
where Population > 500000
AND population < 1000000
Order by Population
-- This tells you the different. BOOM! it was Amman and Pointe-Noire
/*select ID, Name, Population
from city
where Population = 500000
or population = 1000000
*/
-- Task 9
-- Lowest population in city table
select ID, Name, Population
from city
Order By Population
```

```
Limit 1;
-- PAGE 20 Task BONUS
-- Capital of Spain
select*
from country
where name = 'united states';
select*
from city
where ID = '3813';
select city.name AS 'Capital_of_Country', city.CountryCode, country.name
from city
JOIN country
ON city.ID = country.capital
WHERE country.name = 'Spain'
-- Page 20 BONUS 2
-- Languages in Caribbean region
-- Explore both tables.
-- countrylanguage --> CountryCode and country --> Code
-- Extract more columns than you need, sense check
```

```
/*select*
from country;
select*
from countrylanguage;
*/
select country.code, country.region, country.Name, countrylanguage.language
from country
join countrylanguage
ON country.code = countrylanguage.countrycode
WHERE country.region = 'Caribbean'
select DISTINCT countrylanguage.language
from country
join countrylanguage
ON country.code = countrylanguage.countrycode
WHERE country.region = 'Caribbean'
-- Page 20 Bonus 3
-- All cities in Europe continent
-- Exploring tables, select* from country; select* from city;
-- found search and result columns; Country. Continent and city.name
-- Will only join on city.countrycode and country.code
```

select city.countrycode, city.name AS 'CityName', country.continent

from country

join city

ON country.code = city.countrycode

WHERE country.continent = 'Europe';