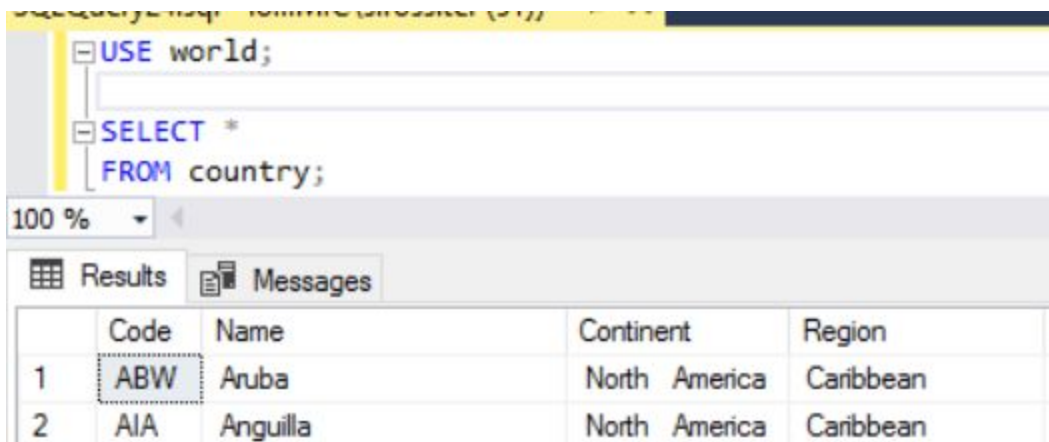


LAB 2_4

Lesson Time: 60 Minutes

In this lab, we will practice writing queries. All you must do is follow along, writing the queries as shown. There are no tricks here, each query returns valid results, so you should see the results in the records in the Results window.

1. Open SQL Server Management Studio and connect. Use Windows Authentication. Server name should be localhost\SQLEXPRESS
2. In Object Explorer, click Databases and browse to the World database. Click Databases > World > Tables > Columns. Browse through the columns to get a better understanding of what the table is made of.
3. Click the New Query button.
4. Type the query shown below, and execute it.



The screenshot shows the SQL Server Management Studio interface. The query editor at the top contains the following SQL code:

```
USE world;  
  
SELECT *  
FROM country;
```

Below the query editor, the Results window is displayed, showing the results of the query. The Results window has two tabs: "Results" and "Messages". The "Results" tab is active, showing a table with the following data:

| | Code | Name | Continent | Region |
|---|------|----------|---------------|-----------|
| 1 | ABW | Aruba | North America | Caribbean |
| 2 | AIA | Anguilla | North America | Caribbean |

5. Click Messages to see the number of records the query returned. You can also see the number of rows in the bottom corner of the status bar.

6. Practice writing the following simple queries, and observe the results.

```
--where region is caribbean
SELECT *
FROM country
WHERE Region = 'Caribbean';

--where population is greater than 1,000,000
SELECT *
FROM country
WHERE Population > 1000000;

--where continent is europe or asia
SELECT *
FROM country
WHERE continent = 'Europe'
OR continent = 'Asia';
```

7. Practice these queries

```
--where continent is south america or indepYear is > 1950
SELECT *
FROM country
WHERE continent = 'South America'
OR IndepYear > 1950

--where continent is south america and governemnt is republic
SELECT *
FROM country
WHERE continent = 'South America'
AND GovernmentForm = 'Republic'

--...And the indepenence year is 1811
SELECT *
FROM country
WHERE continent = 'South America'
AND GovernmentForm = 'Republic'
AND IndepYear = 1811
```

8. Practice these more complex queries

```
--Practice 'Between'  
SELECT *  
FROM country  
WHERE Population between 6000000 and 12000000;  
  
SELECT *  
FROM country  
WHERE LifeExpectancy between 62 and 72;  
  
--Practice Like
```

```
--Practice Like  
  
SELECT *  
FROM country  
WHERE Name like 'B%';  
  
SELECT *  
FROM country  
WHERE Name like 'Bu%';  
  
SELECT *  
FROM country  
WHERE Name like 'Cr%';  
  
SELECT *  
FROM country  
WHERE Name like '%An%';
```

9. Practice using IN

```
--Practice IN

SELECT *
FROM country
WHERE Name IN ('Spain', 'Brazil', 'United Kingdom');

SELECT *
FROM country
WHERE Continent IN ('Europe' , 'South America');
```

10. Practice limiting the results to certain columns. Remember, the last column in the list doesn't have a comma after it!

```
--Practice column selection

SELECT
name,
continent,
gnp,
LocalName
FROM country

--columns can appear in any order.

SELECT
LocalName,
gnp,
Continent,
name
FROM country
```

```
--columns can repeat
```

```
SELECT  
name,  
name,  
name,  
continent
```

```
FROM country;
```

```
--columns can be given a different name for the query.  
--the real column name of the table doesn't change
```

```
SELECT  
name AS 'Country Name',  
continent  
FROM country;
```

Save your work as 2_4_Lab_yourname.sql and upload it for a grade.