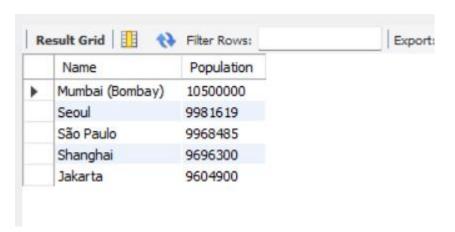
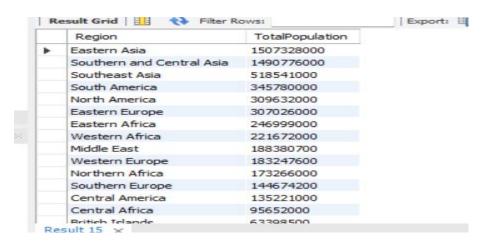
EXTRACTING AND ANALYZINF DATA FROM DATASET

Here is the detailed observation of the SQL commands and the screenshots of the results, along with the steps we followed to perform the work.

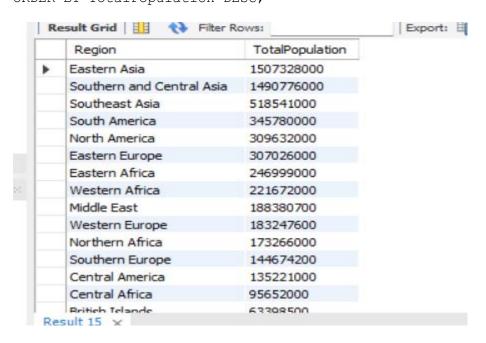
-- Top 5 most populous cities SELECT Name, Population FROM city ORDER BY Population DESC LIMIT 5;



-- COUNTRY WITH POPULATION MORE THAN 10000 IN ASCENDING ORDER SELECT Name, Population From city where Population>10000 ORDER BY Population asc LIMIT 10;



-- Population by region SELECT Region, SUM(Population) AS TotalPopulation FROM country GROUP BY Region ORDER BY TotalPopulation DESC;



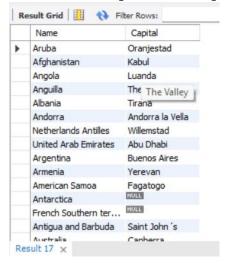
-- INNER JOIN: List cities with their country names SELECT city.Name AS City, country.Name AS Country FROM city

INNER JOIN country ON city.CountryCode = country.Code ;



-- LEFT JOIN: All countries and their capital city name (if exists) SELECT country.Name, city.Name AS Capital FROM country

LEFT JOIN city ON country.Capital = city.ID;

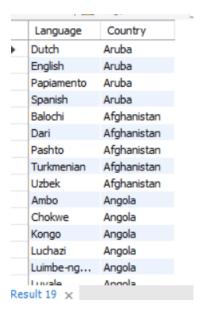


-- RIGHT JOIN: Languages used in countries (if your DB supports RIGHT JOIN)

SELECT 1.Language, c.Name AS Country

FROM country c

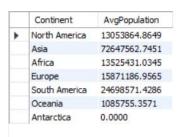
RIGHT JOIN countrylanguage | ON c.Code = 1.CountryCode;



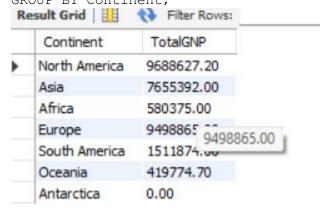
```
-- Countries with population above the average
SELECT Name
FROM country
WHERE Population > (
         SELECT AVG(Population) FROM country
);
```



-- Average population per continent SELECT Continent, AVG(Population) AS AvgPopulation FROM country GROUP BY Continent;



-- Total GNP by continent SELECT Continent, SUM(GNP) AS TotalGNP FROM country GROUP BY Continent;



-- View of official languages per country DROP VIEW IF EXISTS official languages;

CREATE OR REPLACE VIEW official_languages AS
SELECT c.Name AS Country, l.Language
FROM country c
JOIN countrylanguage l ON c.Code = l.CountryCode
WHERE l.IsOfficial = 'T';

Country	Language	
Aruba	Dutch	
Afghanistan	Dari	
Afghanistan	Pashto	
Anguilla	English	
Albania	Albaniana	
Andorra	Catalan	
ficial_languages2 ×	Dutch	
utput		
n		