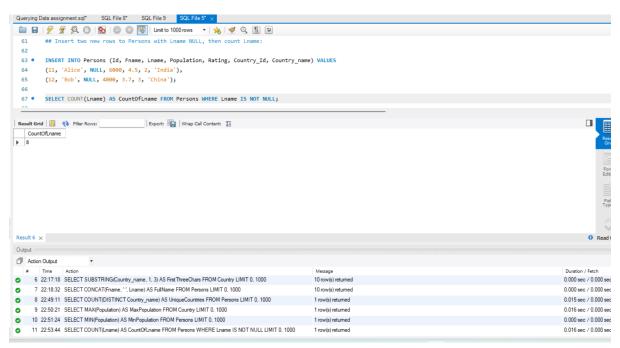
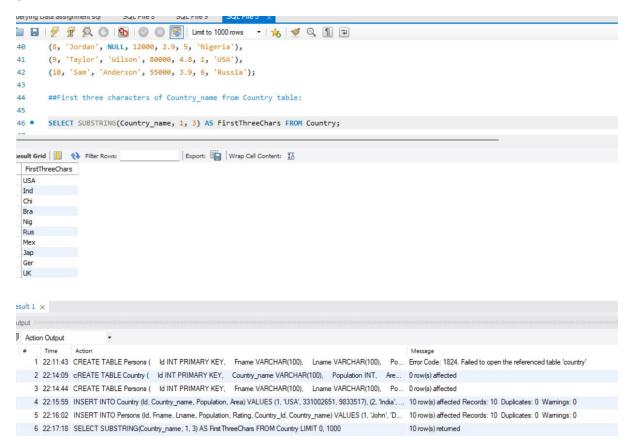
Sorting and Grouping data

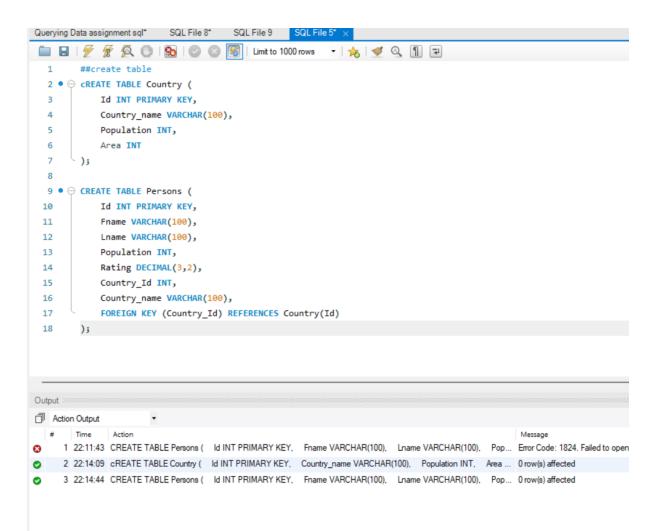
```
Querying Data assignment sql* SQL File 8* SQL File 9 SQL File 5* X
 Limit to 1000 rows
▼ ½ Ø Ø ¶ □
         ##create table
  2 • ⊖ cREATE TABLE Country (
   3
            Id INT PRIMARY KEY,
             Country_name VARCHAR(100),
             Population INT,
             Area INT
   6
  8
  9 ● ○ CREATE TABLE Persons (
             Id INT PRIMARY KEY,
 10
             Fname VARCHAR(100),
 11
             Lname VARCHAR(100),
 12
 13
             Population INT,
 14
             Rating DECIMAL(3,2),
 15
             Country_Id INT,
 16
             Country_name VARCHAR(100),
  17
             FOREIGN KEY (Country_Id) REFERENCES Country(Id)
  18
         );
Output :
Action Output
      Time
              Action
                                                                                                 Message
    1 22:11:43 CREATE TABLE Persons ( Id INT PRIMARY KEY, Fname VARCHAR(100), Lname VARCHAR(100), Pop... Error Code: 1824. Failed to open
2 22:14:09 cREATE TABLE Country ( Id INT PRIMARY KEY, Country_name VARCHAR(100), Population INT, Area ... 0 row(s) affected
     3 22:14:44 CREATE TABLE Persons ( Id INT PRIMARY KEY, Fname VARCHAR(100), Lname VARCHAR(100), Pop... 0 row(s) affected
```

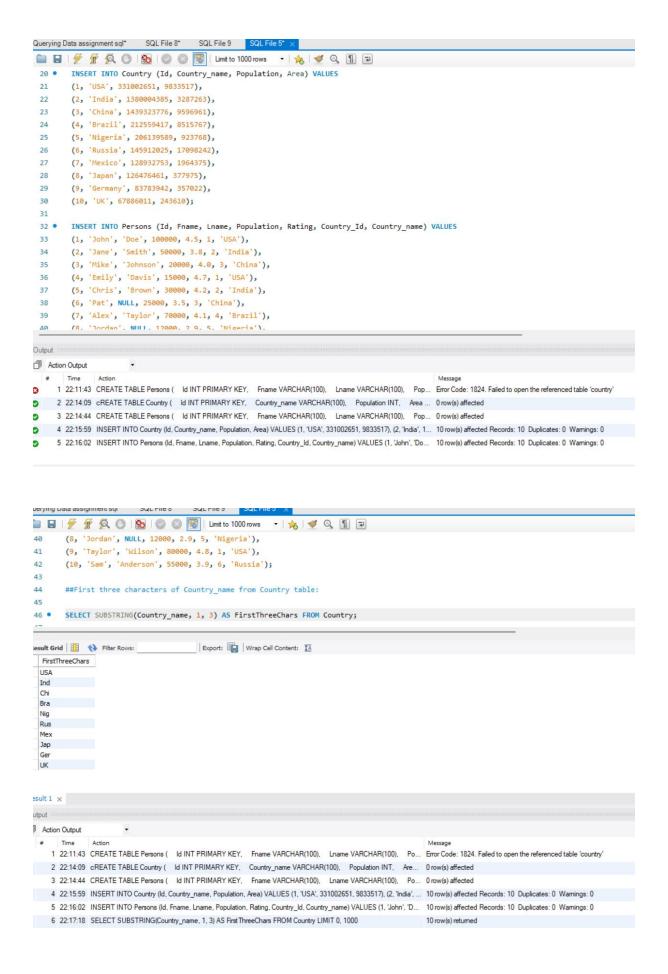
2.

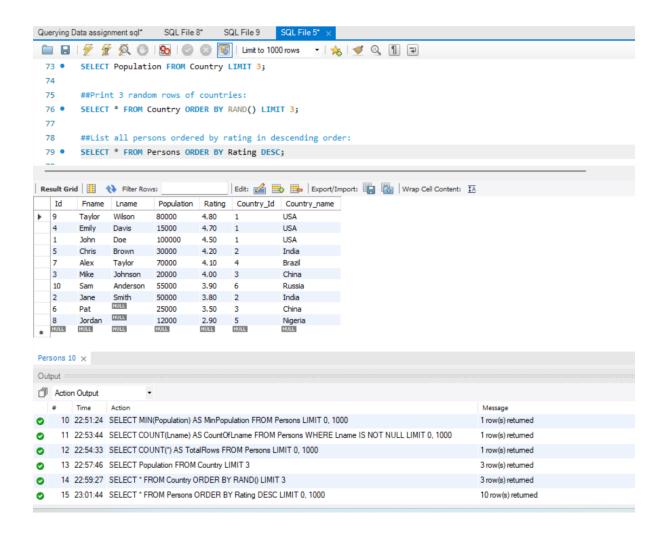




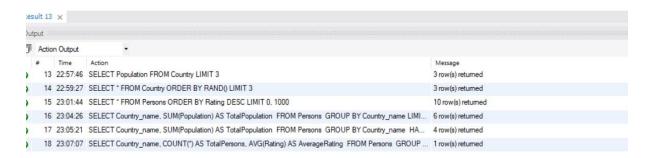
ult3 x			
put			
Action Output		•	
#	Time	Action	Message
3	22:14:44	CREATE TABLE Persons (Id INT PRIMARY KEY, Fname VARCHAR(100), Lname VARCHAR(100),	0 row(s) affected
4	22:15:59	INSERT INTO Country (Id, Country_name, Population, Area) VALUES (1, 'USA', 331002651, 9833517), (2, 'India	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0
5	22:16:02	INSERT INTO Persons (Id, Fname, Lname, Population, Rating, Country_Id, Country_name) VALUES (1, 'John', '	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0
6	22:17:18	SELECT SUBSTRING(Country_name, 1, 3) AS FirstThreeChars FROM Country LIMIT 0, 1000	10 row(s) returned
7	22:18:32	SELECT CONCAT(Fname, '', Lname) AS FullName FROM Persons LIMIT 0, 1000	10 row(s) returned
8	22:49:11	SELECT COUNT(DISTINCT Country_name) AS UniqueCountries FROM Persons LIMIT 0, 1000	1 row(s) returned











SUMMARY

Tables

1. Country

o Columns:

Id: Unique identifier

Country_name: Name of the country

Population: Total population

Area: Total area (in sq km)

2. Persons

Columns:

Id: Unique identifier

Fname: First name

Lname: Last name (nullable)

Population: Population represented by the person

Rating: Rating on a scale of 0-5

Country_Id: Foreign key referencing the Country table

Country_name: Name of the associated country

SQL Operations

- Table Creation: Create Country first, then Persons.
- Data Insertion: Insert sample data into both tables.
- Queries: Execute various SQL queries to:
 - o Retrieve specific fields (like country names)
 - Concatenate names
 - O Count unique countries and total populations
 - o Find maximum and minimum populations
 - Analyze data based on ratings and grouping.

This setup enables easy management and retrieval of information related to countries and their associated individuals.