**USE CASES**

Use Case 1: Creating a Country Report  
Scenario:  
A user wants to display a list of all countries of the world in descending order by population.  
  
Steps:  
  
The user selects the "Country Report" option from the system menu.  
  
The system retrieves data from the MySQL database with columns: Code, Name, Continent, Region, Population, and Capital.  
  
The system sorts the countries based on population in descending order.  
  
The system displays the report in tabular form.  
  
Use Case 2: Top N Populated Cities in a Continent  
Scenario:  
A user needs to see the top 5 populated cities in Africa.  
  
Steps:  
  
The user selects the "Top N Populated Cities" option from the system menu.  
  
The user sets N = 5 and selects the continent "Africa."  
  
The system requests the database for retrieving the top 5 populated cities in Africa.  
  
The system displays the report with columns: Name, Country, District, and Population.  
  
Use Case 3: Population Breakdown by Continent  
Scenario:  
A user must see the population breakdown for the continent of Europe, including the percentage of people in cities and rural areas.  
  
Steps:  
  
The user selects the "Population Breakdown" option and chooses "Continent" as the level.  
  
The user selects "Europe" from the list of continents.  
  
The system computes the total population of Europe, population residing in cities, and population not residing in cities.  
  
The system shows the report with columns: Continent, Total Population, Population in Cities (%), and Population Not in Cities (%).  
  
  
Use Case 4: Language Speakers Statistics  
Scenario:  
A user wants to view the number of speakers and world population percentage for the 5 most significant languages: Chinese, English, Hindi, Spanish, and Arabic.  
  
Steps:  
  
The user selects the "Language Statistics" item from the system menu.  
  
The system requests the database to provide the number of speakers for each language and calculate the world population percentage.  
  
The system displays the report in descending order of number of speakers.  
  
Use Case 5: Capital City Report for a Region  
Scenario:  
A user wants to show a list of all the capital cities for the Southeast Asia region, sorted by population.  
  
Steps:  
  
The user selects the "Capital City Report" option and selects "Region" as the level.  
  
The user selects "Southeast Asia" from the list of regions.  
  
The system retrieves data for all Southeast Asian capital cities, with columns: Name, Country, and Population.  
  
The system sorts the cities by population in descending order and displays the report.  
  
  
Use Case 6: Population of a Specific City  
Scenario:  
A user needs to find out the population of Paris city in France.  
  
Steps:  
  
The user selects the "Population Data" option and chooses "City" as the level.  
  
The user enters "Paris" for the city and "France" for the country.  
  
The system queries the database and obtains the population of Paris.  
  
The system displays the result.