CSX3006 Database Systems: Worksheet 5

**Instruction:   
1. Write your SQL command in .sql file and add group number, ID and name of the team members as comment on top of the answers.**

-- Group x

-- ID: xxxxxxx Name: xxxxxxxx

-- ID: xxxxxxx Name: xxxxxxxx

-- ID: xxxxxxx Name: xxxxxxxx

**2. Refer to the COVID19 Database in this worksheet and write SQL commands of the following 6 questions.**

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| The **DailyCase** relation   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **CurrentDate** | **Country** | **NewCase** | **NewDeath** | **NewRecovered** | | 2020-07-26 | Belgium | 299 | 0 | 13 | | 2020-07-26 | Brazil | 24578 | 555 | 27554 | | 2020-07-26 | Canada | 319 | 5 | 0 | | 2020-07-26 | Chile | 2198 | 92 | 1926 | | 2020-07-26 | Colombia | 0 | 0 | 0 | | 2020-07-26 | France | 0 | 0 | 0 | | 2020-07-26 | Germany | 389 | 0 | 136 | | 2020-07-26 | India | 49981 | 711 | 31995 | | 2020-07-26 | Iran | 2333 | 216 | 1894 | | 2020-07-26 | Italy | 254 | 5 | 126 | | 2020-07-26 | Mexico | 5480 | 1035 | 6403 | | 2020-07-26 | Peru | 0 | 0 | 8427 | | 2020-07-26 | Russia | 5741 | 77 | 3108 | | 2020-07-26 | South Africa | 11233 | 114 | 2023 | | 2020-07-26 | USA | 54953 | 470 | 18449 | | 2020-07-27 | Belgium | 402 | 1 | 14 | | 2020-07-27 | Brazil | 23284 | 614 | 33728 | | 2020-07-27 | Canada | 682 | 11 | 0 | | 2020-07-27 | Chile | 2133 | 75 | 1859 | | 2020-07-27 | Colombia | 16306 | 508 | 11494 | | 2020-07-27 | France | 2551 | 17 | 267 | | 2020-07-27 | Germany | 445 | 1 | 259 | | 2020-07-27 | India | 44457 | 637 | 33598 | | 2020-07-27 | Iran | 2434 | 212 | 1931 | | 2020-07-27 | Italy | 168 | 5 | 147 | | 2020-07-27 | Mexico | 4973 | 342 | 8588 | | 2020-07-27 | Peru | 13756 | 575 | 4697 | | 2020-07-27 | Russia | 5607 | 85 | 3077 | | 2020-07-27 | South Africa | 7096 | 298 | 9848 | | 2020-07-27 | USA | 56336 | 1076 | 27941 |   The **CaseSummary** relation   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Country** | **TotalCase** | **TotalDeath** | **TotalRecovered** | **TotalTest** | | USA | 5032179 | 162804 | 2576668 | 63139605 | | Brazil | 2917562 | 98644 | 2047660 | 13206188 | | Mexico | 462690 | 50517 | 308848 | 1056915 | | India | 2025409 | 41638 | 1377384 | 22149351 | | Italy | 249204 | 35187 | 201323 | 7099713 | | France | 195633 | 30312 | 82460 | 3992206 | | Peru | 455409 | 20424 | 310337 | 2493429 | | Iran | 320117 | 17976 | 277463 | 2612763 | | Russia | 871894 | 14606 | 676357 | 29716907 | | Colombia | 357710 | 11939 | 192355 | 1801835 | | Chile | 366671 | 9889 | 340168 | 1760615 | | Belgium | 71158 | 9859 | 17661 | 1767120 | | South Africa | 538184 | 9604 | 387316 | 3149807 | | Germany | 215210 | 9252 | 196200 | 8586648 | | Canada | 118561 | 8966 | 103106 | 4319172 |   The **Country** relation   |  |  |  |  | | --- | --- | --- | --- | | **Country** | **Continent** | **WHORegion** | **Population** | | Belgium | Europe | Europe | 331198130 | | Brazil | South America | Americas | 212710692 | | Canada | North America | Americas | 129066160 | | Chile | South America | Americas | 1381344997 | | Colombia | South America | Americas | 60452568 | | France | Europe | Europe | 65288306 | | Germany | Europe | Europe | 33016319 | | India | Asia | South-East Asia | 84097623 | | Iran | Asia | Eastern Mediterranean | 145940924 | | Italy | Europe | Europe | 50936262 | | Mexico | North America | Americas | 19132514 | | Peru | South America | Americas | 11594739 | | Russia | Europe | Europe | 59381566 | | South Africa | Africa | Africa | 83811260 | | USA | North America | Americas | 37775022 | |

Fig. 1. The COVID19 Database (top 15 countries data on 26-27/7/2020)

1. Retrieve countries’ name in South America that have new recovered cases or new cases on 7/26/2020.
2. Retrieve countries’ name that total deaths are greater than Iran but have no new case on 7/26/2020.
3. Calculate total number of new cases, new deaths and new recovered cases on 26-27 of July 2020.
4. Calculate minimum, maximum and average values of total deaths in each WHORegion.
5. Retrieve the WHORegion with highest average total deaths.
6. Retrieve number of countries in each continent whose total deaths are greater than 20,000.