Assignment 1: Database Searches

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Index Table:

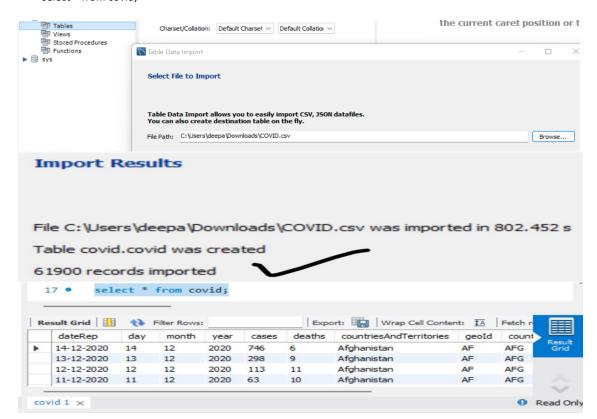
Sr. No.	Assignment Requirement	Page number
1	Part 1	1-3
2	Part 2	4-5

Part 1. Import the COVID.csv file into your MySQL or other DBMS that you have installed. Answer the questions below for this data.

File import snaps:

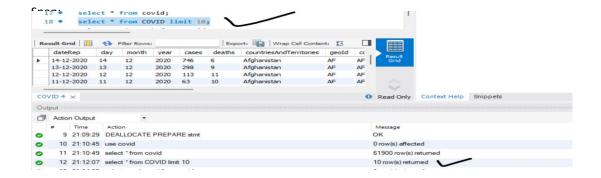
Inserted given file by table insert wizard after creating below database in MySql MySQL codes for create database and show covid file: create schema 'covid'; use covid;

select * from covid;



Answers for all questions are below:

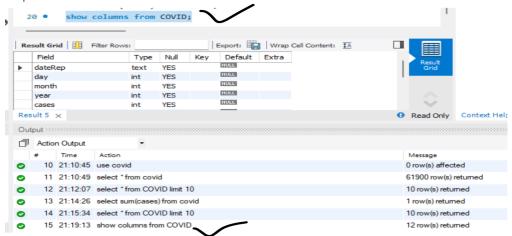
1) Show top 10 lines from TABLE 1 MySQL code: select * from COVID limit 10;



2) Show/list columns of this table

MySQL code: show columns from COVID;

Snap:



3) What is the total of cases

MySQL code: select sum(cases) from covid;

Answer: 71503614

Snap:



4) What is the total of deaths

MySQL code: select sum(deaths) from covid;

Answer: 1612833

Snap:



5) What are unique territories

 $MySQL\ code:\ select\ distinct (countries And Territories)\ from\ covid;$



MySql output saved in given excel file

6) Show total cases, deaths, in different countries MySQL code: select countriesAndTerritories, sum(distinct cases), sum(distinct deaths) from covid group by countriesAndTerritories;



no of cases deaths in

MySql output saved in given excel file different countries.xls:

7) Show rate of death (deaths/cases) that occur in Afghanistan for each month. Display data in chronological order

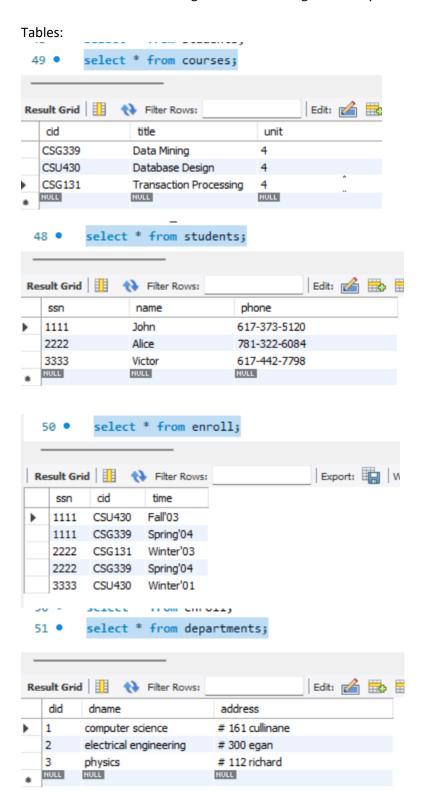
MySQL code: select month, year, countriesAndTerritories, sum(deaths / cases) deathrate from covid where countriesAndTerritories = 'Afghanistan' group by month, year order by year, month asc;

month	year	countriesAndTerritories	deathrate
12	2019	Afghanistan	NULL
1	2020	Afghanistan	NULL
2	2020	Afghanistan	0
3	2020	Afghanistan	0.4209
4	2020	Afghanistan	1.3253
5	2020	Afghanistan	0.5461
6	2020	Afghanistan	1.042
7	2020	Afghanistan	4.5512
8	2020	Afghanistan	1.5137
9	2020	Afghanistan	1.8844
10	2020	Afghanistan	1.4821
11	2020	Afghanistan	1.3493
12	2020	Afghanistan	1.0393

Part 2: create the tables for the four databases that we covered in class. See attached document for screenshot but you can also review the posted powerpoints. Use primary keys or other constraints as needed. Use the mysql tool to generate an ER diagram to show all tables you've just created and their relationships. Include a screenshot to the TA's

Student response:

Please find created tables & generated ERD diagrams in MySQL:



PNG files of ERD diagrams generated from MySQL:

