COVID 19 DATA MAINTENANCE SOFTWARE

ER DIAGRAM :

COVID 19 SURVEY SOFTWARE

Total Population

Confirmed Cases

Vaccination Details

People Recovered

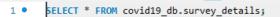**Affected Countries**
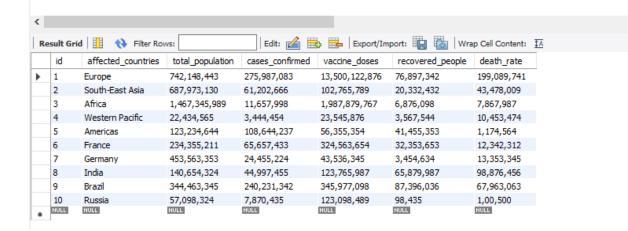
Number of Deaths

CODE :

```python
import mysql.connector
mydb = mysql.connector.connect(
    host = "localhost",
    user = "root",
    password = "12345",
    database = "covid19_db"
)
mycursor = mydb.cursor()

def data_entry() :
    sql = "insert into survey_details(affected_countries,
total_population, cases_confirmed, vaccine_doses, recovered_people,
death_rate) values (%s, %s, %s, %s, %s, %s)"
    affected_countries = input("Affected Country Name : ")
    total_population = input("Total no. of Population : ")
    cases_confirmed = input("Number of cases confirmed : ")
    vaccine_doses = input("Number of Vaccine doses taken : ")
    recovered_people = input("People recovered from virus : ")
    death_rate = input("Number of people died : ")
    val = (affected_countries, total_population, cases_confirmed,
vaccine_doses, recovered_people, death_rate)
    mycursor.execute(sql, val)
    mydb.commit()
    print("Datas entered >>>")

def data_visualization() :
        print("// Survey details are listed below //")
        mycursor.execute("Select * from survey_details")
        myresult = mycursor.fetchall()
        for i in myresult :
            print(i)

def data_updation() :
    affected_countries = input("Affected country name : ")
    cases_cofirmed = input("Number of cases confirmed : ")
    recovered_people = input("People recovered from virus : ")
    death_rate = input("Number of people died : ")
    mycursor.execute(f"Update survey_details set cases_confirmed =
{cases_cofirmed}, recovered_people = {recovered_people}, death_rate =
{death_rate} where affected_countries = {affected_countries}")
    mydb.commit()
    print("Data updated Successfully")
```

```python
def data_deletion() :
    column_name = input("Which column you want to delete : ")
    delete_data = input(f"Which data you want to delete in
{column_name} column : ")
    sql = f"delete from survey_details where {column_name} = %s"
    mycursor.execute(sql, (delete_data,))
    mydb.commit()
    print("Data deleted Successfully")

def main_func() :
    print("'''COVID 19 SURVEY SOFTWARE'''")
    print("For data Entry...CLICK <1>")
    print("For data Visualization...CLICK <2>")
    print("For data Updation...CLICK <3>")
    print("For data Deletion...CLICK <4>")

    try :
        user = int(input("Enter a number : "))
        if user == 1 :
            data_entry()
        elif user == 2 :
            data_visualization()
        elif user == 3 :
            data_updation()
        elif user == 4 :
            data_deletion()
        else :
            print("Please check the number !!!")
    except :
        print("Oops...Something went wrong !")
main_func()
```

OUTPUT :

```
PS D:\Python Project> & C:/Users/admin/AppData/Local/Programs/Python/Python311/python.exe "d:/Python Project/cororna.py/project_covid.py"
''COVID 19 SURVEY SOFTWARE''
For data Entry...CLICK <1>
For data Visualization...CLICK <2>
For data Updation...CLICK <3>
For data Deletion...CLICK <4>
Enter a number : 1
Affected Country Name : Europe
Total no. of Population : 742,148,443
Number of cases confirmed : 275,987,083
Number of Vaccine doses taken : 13,500,122,876
People recovered from virus : 76,897,342
Number of people died : 199,089,741
Datas entered >>>
PS D:\Python Project> & C:/Users/admin/AppData/Local/Programs/Python/Python311/python.exe "d:/Python Project/cororna.py/project_covid.py"
''COVID 19 SURVEY SOFTWARE''
For data Entry...CLICK <1>
For data Visualization...CLICK <2>
For data Updation...CLICK <3>
For data Deletion...CLICK <4>
Enter a number : 1
Affected Country Name : South-East Asia
Total no. of Population : 687,973,130
Number of cases confirmed : 61,202,666
Number of Vaccine doses taken : 102,765,789
People recovered from virus : 20,332,432
Number of people died : 43,478,009
Datas entered >>>
PS D:\Python Project>
```

```
1 •    SELECT * FROM covid19_db.survey_details;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: ‡A

id	affected_countries	total_population	cases_confirmed	vaccine_doses	recovered_people	death_rate
1	Europe	742,148,443	275,987,083	13,500,122,876	76,897,342	199,089,741
2	South-East Asia	687,973,130	61,202,666	102,765,789	20,332,432	43,478,009
3	Africa	1,467,345,989	11,657,998	1,987,879,767	6,876,098	7,867,987
4	Western Pacific	22,434,565	3,444,454	23,545,876	3,567,544	10,453,474
5	Americas	123,234,644	108,644,237	56,355,354	41,455,353	1,174,564
6	France	234,355,211	65,657,433	324,563,654	32,353,653	12,342,312
7	Germany	453,563,353	24,455,224	43,536,345	3,454,634	13,353,345
8	India	140,654,324	44,997,455	123,765,987	65,879,987	98,876,456
9	Brazil	344,463,345	240,231,342	345,977,098	87,396,036	67,963,063
10	Russia	57,098,324	7,870,435	123,098,489	98,435	1,00,500
NULL	NULL	NULL	NULL	NULL	NULL	NULL

```
PS D:\Python Project> & C:/Users/admin/AppData/Local/Programs/Python/Python311/python.exe "d:/Python Project/cororna.py/project_covid.py"
''COVID 19 SURVEY SOFTWARE''
For data Entry...CLICK <1>
For data Visualization...CLICK <2>
For data Updation...CLICK <3>
For data Deletion...CLICK <4>
Enter a number : 2
// Survey details are listed below //
(1, 'Europe', '742,148,443', '275,987,083', '13,500,122,876', '76,897,342', '199,089,741')
(2, 'South-East Asia', '687,973,130', '61,202,666', '102,765,789', '20,332,432', '43,478,009')
(3, 'Africa', '1,467,345,989', '11,657,998', '1,987,879,767', '6,876,098', '7,867,987')
(4, 'Western Pacific', '22,434,565', '3,444,454', '23,545,876', '3,567,544', '10,453,474')
(5, 'Americas', '123,234,644', '108,644,237', '56,355,354', '41,455,353', '1,174,564')
(6, 'France', '234,355,211', '65,657,433', '324,563,654', '32,353,653', '12,342,312')
(7, 'Germany', '453,563,353', '24,455,224', '43,536,345', '3,454,634', '13,353,345')
(8, 'India', '140,654,324', '44,997,455', '123,765,987', '65,879,987', '98,876,456')
(9, 'Brazil', '344,463,345', '240,231,342', '345,977,098', '87,396,036', '67,963,063')
(11, 'Russia', '57,098,324', '7,870,435', '123,098,489', '98,435', '1,00,500')
PS D:\Python Project>
```

```
PS D:\Python Project> & C:/Users/admin/AppData/Local/Programs/Python/Python311/python.exe "d:/Python Project/cororna.py/project_covid.py"
''COVID 19 SURVEY SOFTWARE''
For data Entry...CLICK <1>
For data Visualization...CLICK <2>
For data Updation...CLICK <3>
For data Deletion...CLICK <4>
Enter a number : 3
Affected country name : France
Number of cases confirmed : 61,783,367
People recovered from virus : 36,167,835
Number of people died : 9,458,940
Oops...Something went wrong !
PS D:\Python Project>
```

```
PS D:\Python Project> & C:/Users/admin/AppData/Local/Programs/Python/Python311/python.exe "d:/Python Project/cororna.py/project_covid.py"
''COVID 19 SURVEY SOFTWARE''
For data Entry...CLICK <1>
For data Visualization...CLICK <2>
For data Updation...CLICK <3>
For data Deletion...CLICK <4>
Enter a number : 4
Which column you want to delete : affected_countries
Which data you want to delete in affected_countries column : Russia
Data deleted Successfully
PS D:\Python Project>
```

```sql
1 • SELECT * FROM covid19_db.survey_details;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: ‍A

id	affected_countries	total_population	cases_confirmed	vaccine_doses	recovered_people	death_rate
1	Europe	742,148,443	275,987,083	13,500,122,876	76,897,342	199,089,741
2	South-East Asia	687,973,130	61,202,666	102,765,789	20,332,432	43,478,009
3	Africa	1,467,345,989	11,657,998	1,987,879,767	6,876,098	7,867,987
4	Western Pacific	22,434,565	3,444,454	23,545,876	3,567,544	10,453,474
5	Americas	123,234,644	108,644,237	56,355,354	41,455,353	1,174,564
6	France	234,355,211	65,657,433	324,563,654	32,353,653	12,342,312
7	Germany	453,563,353	24,455,224	43,536,345	3,454,634	13,353,345
8	India	140,654,324	44,997,455	123,765,987	65,879,987	98,876,456
9	Brazil	344,463,345	240,231,342	345,977,098	87,396,036	67,963,063
NULL	NULL	NULL	NULL	NULL	NULL	NULL