COVID 19 ANALYSIS

- ➢ **Tools Used :** Power BI, SQL Server, Excel
- ➢ **In this project the CSV datasets are loaded into the SQL database. Using different queries we have obtained the below findings and then views are generated for each of the query and these are imported to power BI for Visualization.**

- **Death Rate**

```sql
Create view DeathRate as
select sum(total_cases) as Total_cases, sum(cast(total_deaths as int)) as
Total_Deaths , round((sum(cast(total_deaths as int))/ sum(total_cases))*100,3) as
Deathrate
from CovidDeaths$

select * from DeathRate
```

Power BI Visual

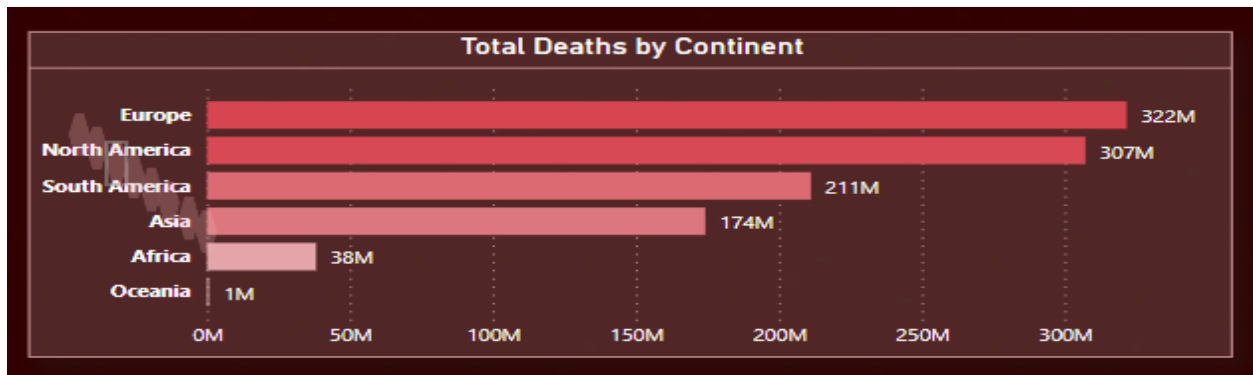- **Total Deaths by continent**

```sql
Create view ContinentDeaths as
select continent, sum(cast(total_deaths as int)) as TotalDeath_count
from CovidDeaths$
where continent not in ('World', 'International','European Union')
group by continent
order by TotalDeath_count desc offset 0 rows

select * from ContinentDeaths
```

- **Highest Infected Count by location and date**

```
Create view HighlyInfected as
Select date, continent, Location, Population, MAX(total_cases) as
HighestInfectionCount,  Max((total_cases/population))*100 as
PercentPopulationInfected
From CovidDeaths$
Group by date, continent,  Location, Population
order by PercentPopulationInfected desc offset 0 rows

select * from HighlyInfected
```
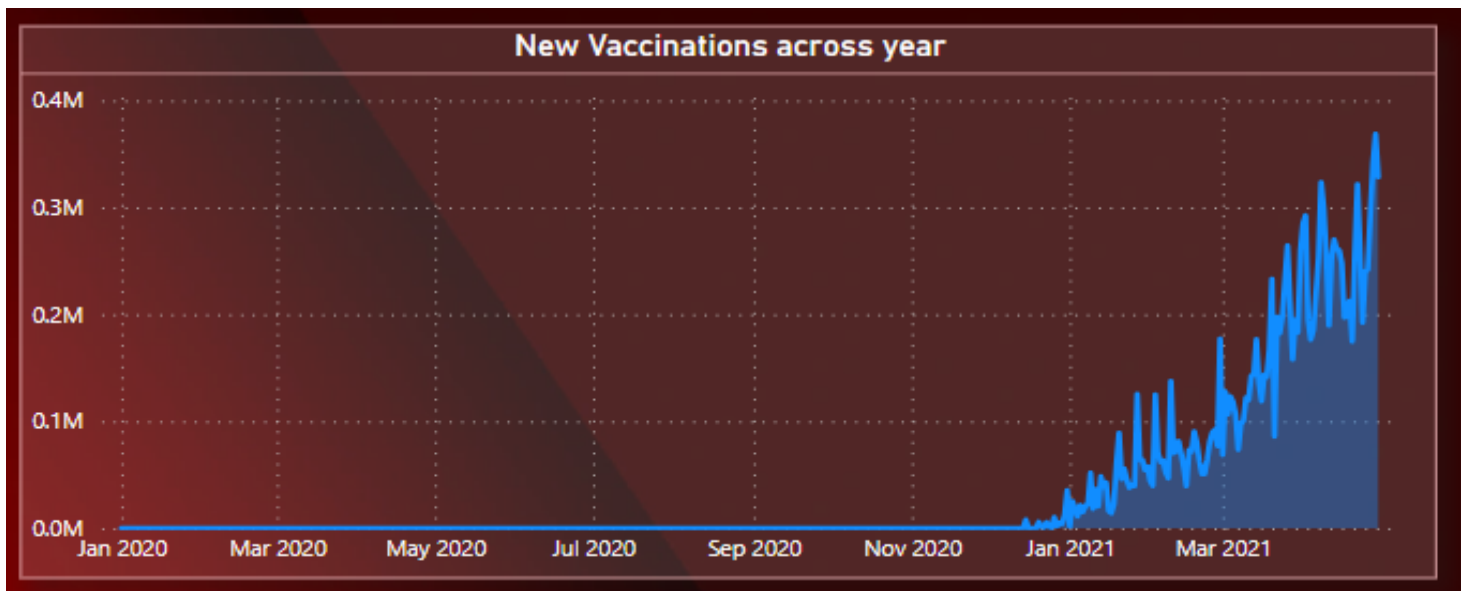
Power BI Visual
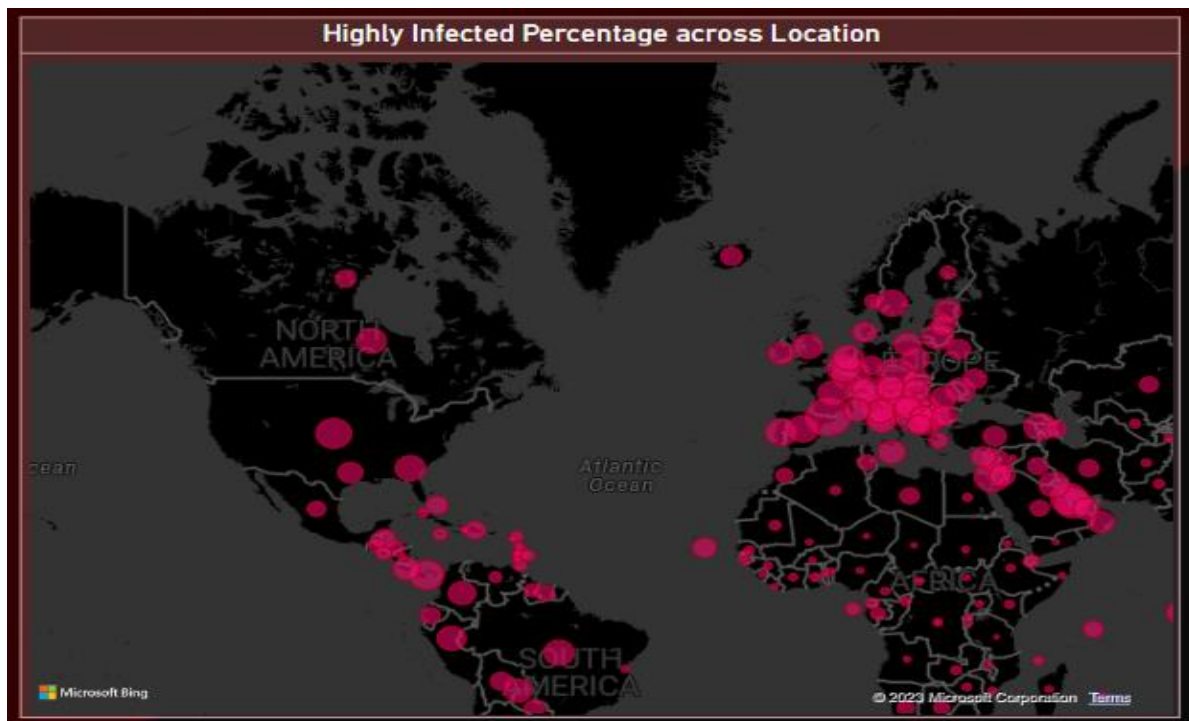
- **Population and Vaccinations**

```
Create view VaccinationsView as
 select d.continent, d.location ,d.date, d.population, v.new_vaccinations ,
 sum(cast(v.new_vaccinations as int)) over (partition by d.location order by
 d.location, d.date) as RollingVaccination
 from CovidDeaths$ d join CovidVaccinations$ v on d.location = v.location and d.date =
 v.date order by d.continent, d.location ,d.date offset 0 rows
```

```
 select * from VaccinationsView
```

Power BI Visual

Final Dashboard