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COVID-19.sql - DESKTOP-IVHRL9V.master (DESKTOP-IVHRL9V\Administrator (55))* - Microsoft SQL Server Management Studio (Administrator)
File Edit View Query Project Tools Window Help
New Query
master Execute
COVID-19.sql - DESKTOP-IVHRL9V.master (DESKTOP-IVHRL9V\Administrator (55))*
-- Data Analysis of COVID-19 Using MSSQL
Select *
From [COVID-19]..CovidDeaths$
order by 3,4

-- Select Data that we are going to be using
Select Location, date, total_cases, new_cases, total_deaths, population
From [COVID-19]..CovidDeaths$
order by 1,2

-- Comparing Total Cases vs Total Deaths in Covid-19
Select Location, date, total_cases, total_deaths, (total_deaths/total_cases)*100 as Death_Percentage
From [COVID-19]..CovidDeaths$
where location like '%Nepal%'
order by 1,2

-- Looking at Total cases vs Population
Select Location, Population, date, total_cases, (total_cases/population)*100 as Infection_Percentage
From [COVID-19]..CovidDeaths$
where location like '%Nepal%'
order by 1,2
```

COVID-19.sql - DESKTOP-IVHRL9V.master (DESKTOP-IVHRL9V\Administrator (55))* - Microsoft SQL Server Management Studio (Administrator) Quick Launch (Ctrl+Q)

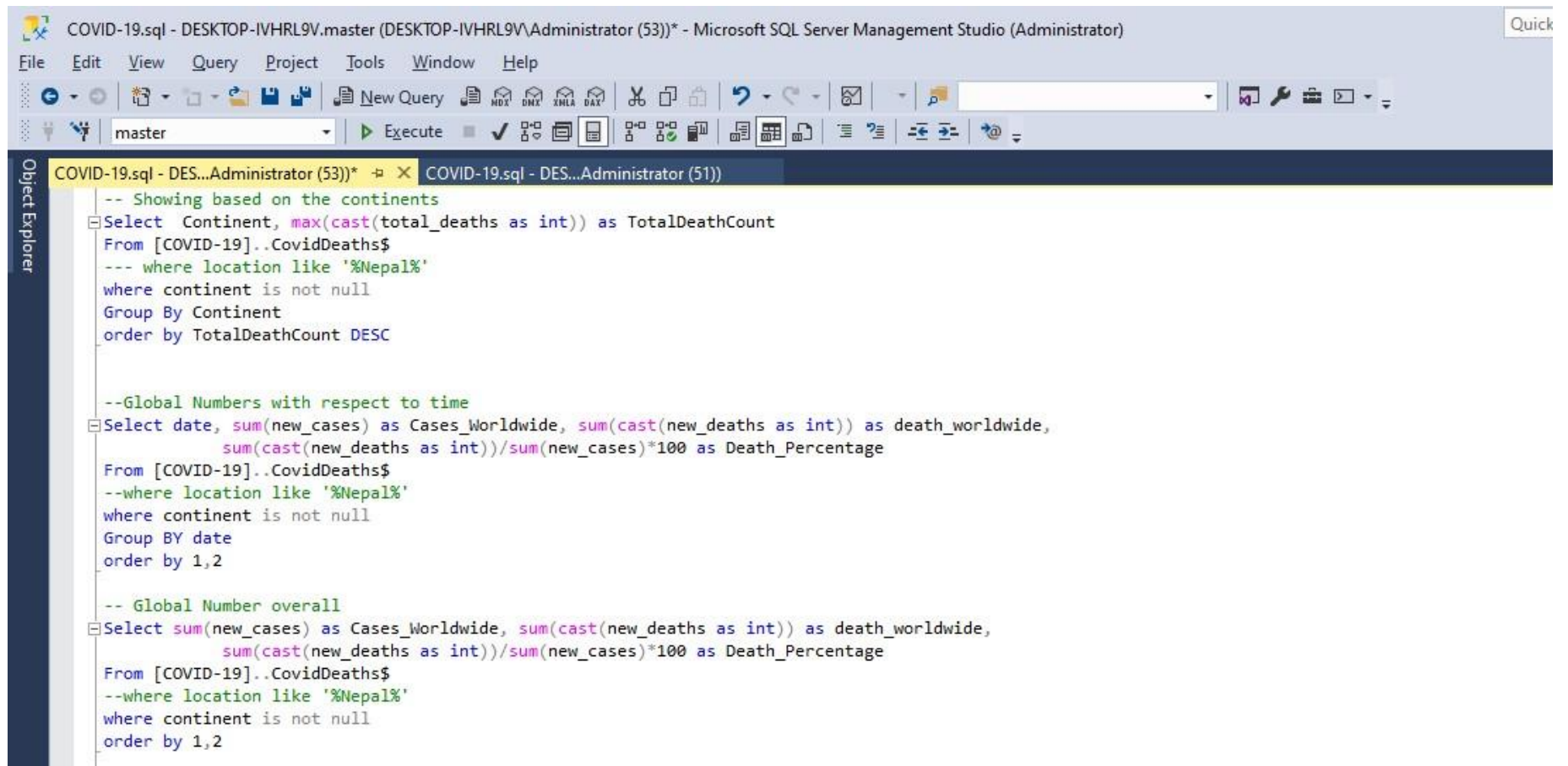
File Edit View Query Project Tools Window Help

master Execute

Object Explorer COVID-19.sql - DES...Administrator (55))*

```
-- Looking at Countries with Highest Infection Rate compared to Population
Select Location, Population, max(cast(total_cases as int)) as HighestInfectionCount, max(total_cases/population)*100 as PercentPopulationInfection
From [COVID-19]..CovidDeaths$
--- where location like '%Nepal%'
Group By Location, Population
order by PercentPopulationInfection DESC

-- Showing the countries with Highest Death Count per population
Select Location, max(cast(total_deaths as int)) as HighestDeathsCount
From [COVID-19]..CovidDeaths$
--- where location like '%Nepal%'
where continent is not null
Group By Location, Population
order by HighestDeathsCount DESC
```

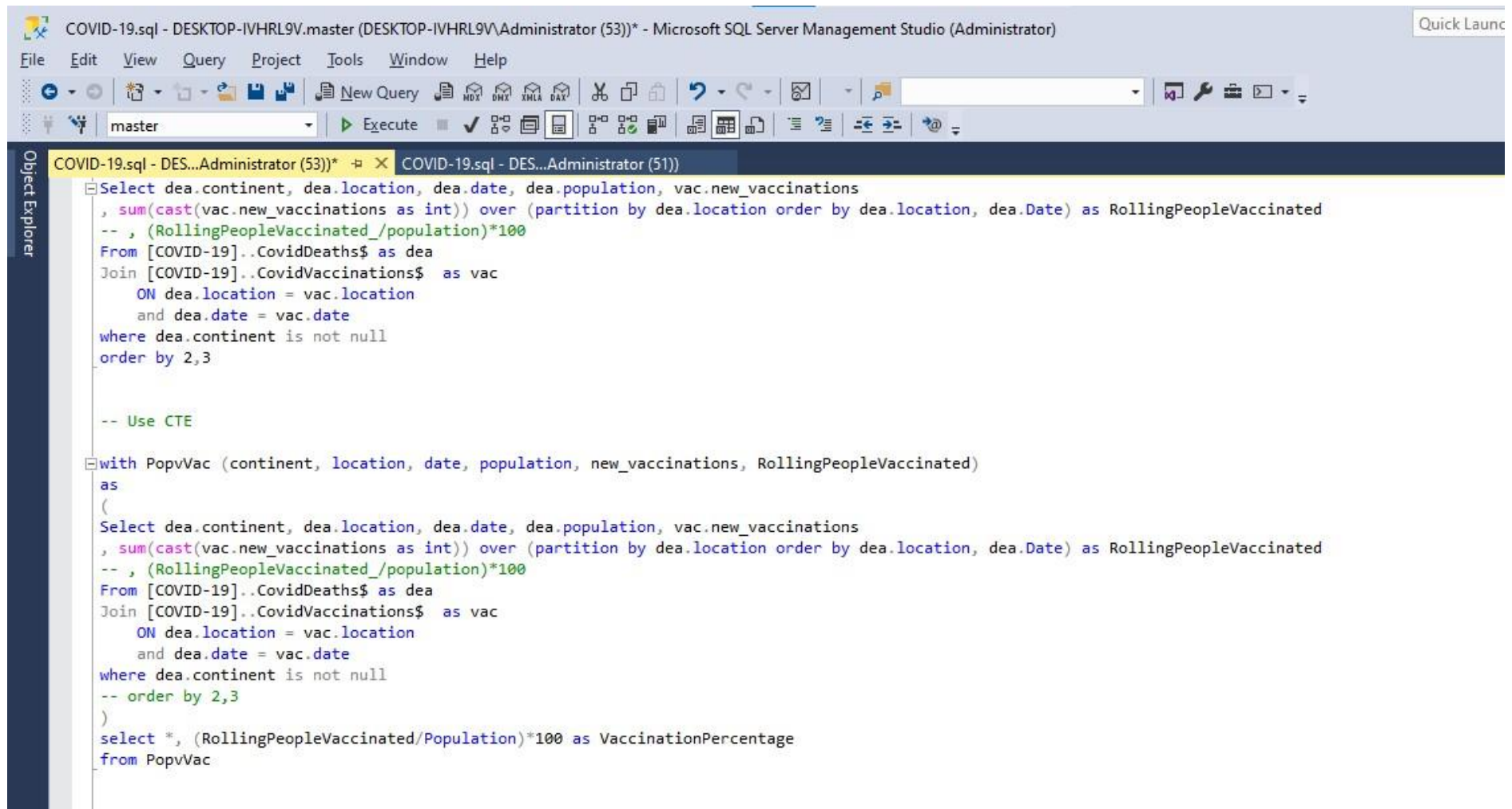


The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. The title bar indicates the connection is to 'COVID-19.sql - DESKTOP-IVHRL9V.master (DESKTOP-IVHRL9V\Administrator (53))* - Microsoft SQL Server Management Studio (Administrator)'. The menu bar includes File, Edit, View, Query, Project, Tools, Window, and Help. The toolbar contains various icons for file operations, query execution, and data viewing. The 'master' database is selected in the server tree on the left. The main query editor displays three SQL queries. The first query calculates the total death count by continent. The second query calculates global COVID-19 statistics (cases, deaths, and death percentage) grouped by date. The third query calculates the overall global statistics. The queries are as follows:

```
-- Showing based on the continents
Select Continent, max(cast(total_deaths as int)) as TotalDeathCount
From [COVID-19]..CovidDeaths$
--- where location like '%Nepal%'
where continent is not null
Group By Continent
order by TotalDeathCount DESC

--Global Numbers with respect to time
Select date, sum(new_cases) as Cases_Worldwide, sum(cast(new_deaths as int)) as death_worldwide,
sum(cast(new_deaths as int))/sum(new_cases)*100 as Death_Percentage
From [COVID-19]..CovidDeaths$
--where location like '%Nepal%'
where continent is not null
Group BY date
order by 1,2

-- Global Number overall
Select sum(new_cases) as Cases_Worldwide, sum(cast(new_deaths as int)) as death_worldwide,
sum(cast(new_deaths as int))/sum(new_cases)*100 as Death_Percentage
From [COVID-19]..CovidDeaths$
--where location like '%Nepal%'
where continent is not null
order by 1,2
```

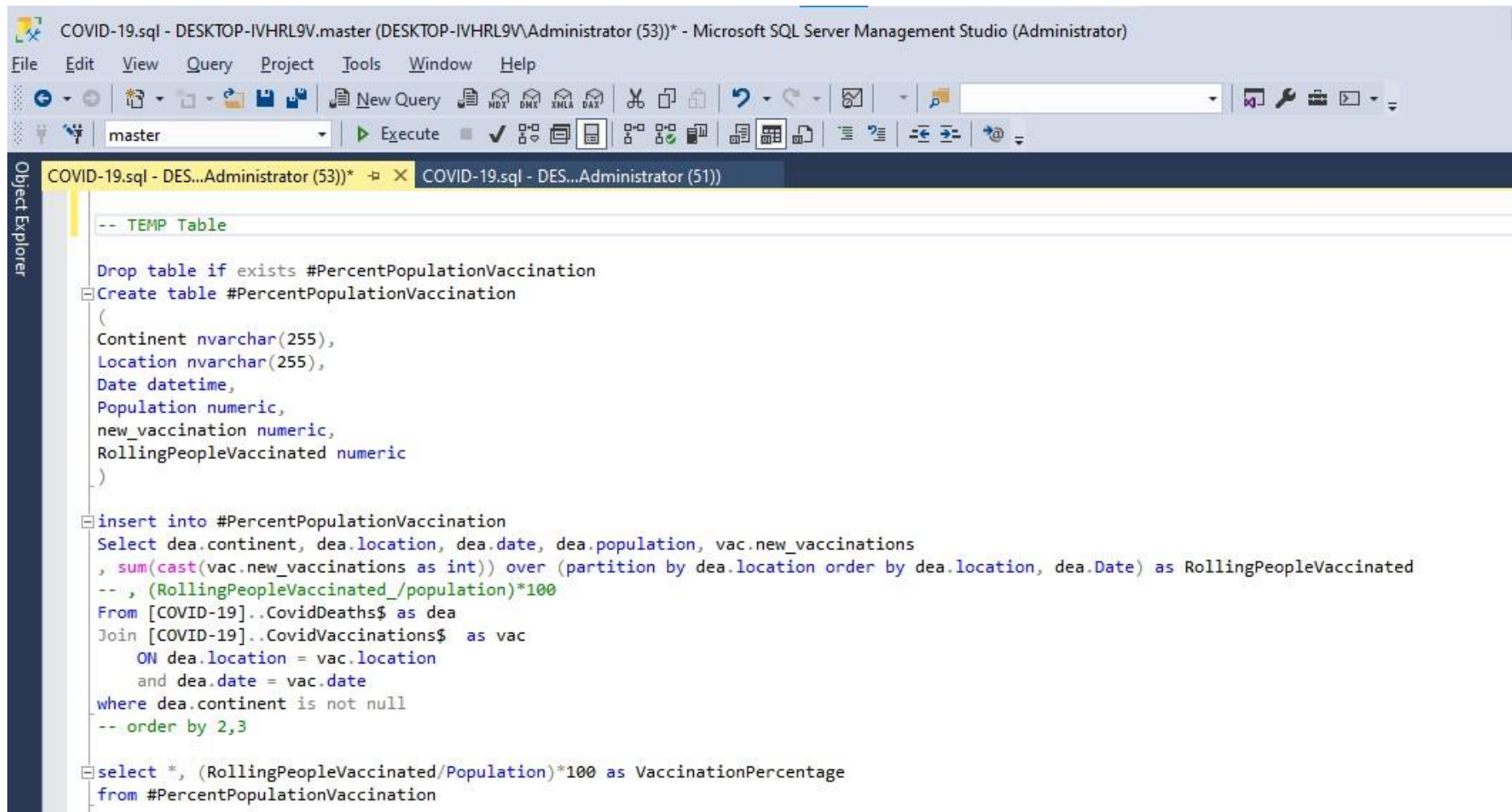


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```
COVID-19.sql - DESKTOP-IVHRL9V.master (DESKTOP-IVHRL9V\Administrator (53))* - Microsoft SQL Server Management Studio (Administrator)
File Edit View Query Project Tools Window Help
New Query
master
Execute
Select dea.continent, dea.location, dea.date, dea.population, vac.new_vaccinations
, sum(cast(vac.new_vaccinations as int)) over (partition by dea.location order by dea.location, dea.Date) as RollingPeopleVaccinated
-- , (RollingPeopleVaccinated_/population)*100
From [COVID-19]..CovidDeaths$ as dea
Join [COVID-19]..CovidVaccinations$ as vac
ON dea.location = vac.location
and dea.date = vac.date
where dea.continent is not null
order by 2,3

-- Use CTE

with PopvVac (continent, location, date, population, new_vaccinations, RollingPeopleVaccinated)
as
(
Select dea.continent, dea.location, dea.date, dea.population, vac.new_vaccinations
, sum(cast(vac.new_vaccinations as int)) over (partition by dea.location order by dea.location, dea.Date) as RollingPeopleVaccinated
-- , (RollingPeopleVaccinated_/population)*100
From [COVID-19]..CovidDeaths$ as dea
Join [COVID-19]..CovidVaccinations$ as vac
ON dea.location = vac.location
and dea.date = vac.date
where dea.continent is not null
-- order by 2,3
)
select *, (RollingPeopleVaccinated/Population)*100 as VaccinationPercentage
from PopvVac
```



```
-- TEMP Table

Drop table if exists #PercentPopulationVaccination
Create table #PercentPopulationVaccination
(
    Continent nvarchar(255),
    Location nvarchar(255),
    Date datetime,
    Population numeric,
    new_vaccination numeric,
    RollingPeopleVaccinated numeric
)

Insert into #PercentPopulationVaccination
Select dea.continent, dea.location, dea.date, dea.population, vac.new_vaccinations
, sum(cast(vac.new_vaccinations as int)) over (partition by dea.location order by dea.location, dea.Date) as RollingPeopleVaccinated
-- , (RollingPeopleVaccinated_/population)*100
From [COVID-19]..CovidDeaths$ as dea
Join [COVID-19]..CovidVaccinations$ as vac
    ON dea.location = vac.location
    and dea.date = vac.date
where dea.continent is not null
-- order by 2,3

select *, (RollingPeopleVaccinated/Population)*100 as VaccinationPercentage
from #PercentPopulationVaccination
```


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```
-- Creating a view for later visualization
Create view PercentPopulationVaccination as
Select dea.continent, dea.location, dea.date, dea.population, vac.new_vaccinations
, sum(cast(vac.new_vaccinations as int)) over (partition by dea.location order by dea.location, dea.Date) as RollingPeopleVaccinated
-- , (RollingPeopleVaccinated_/population)*100
From [COVID-19]..CovidDeaths$ as dea
Join [COVID-19]..CovidVaccinations$ as vac
ON dea.location = vac.location
and dea.date = vac.date
where dea.continent is not null
--order by 2,3
```