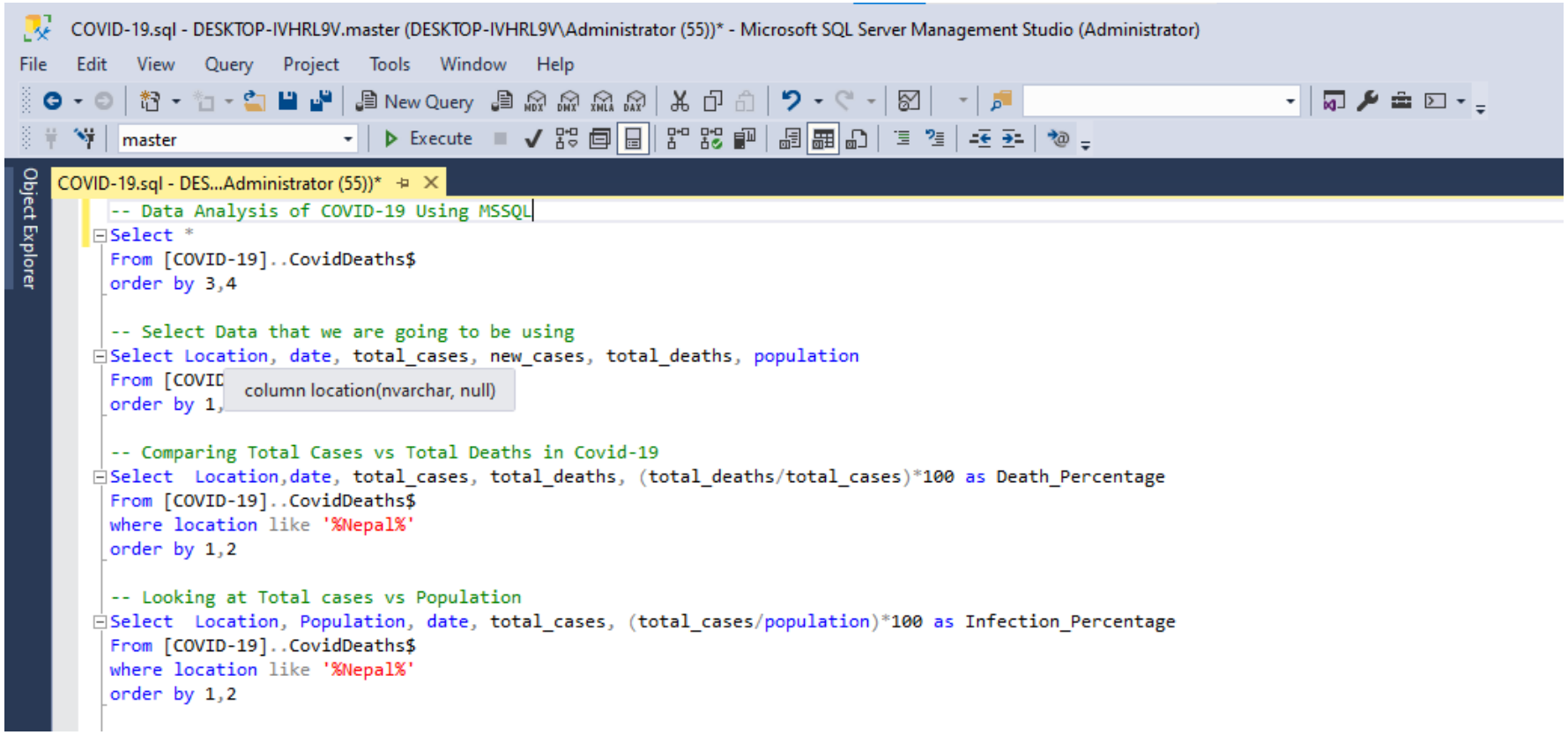

COVID-19


COVID-19.sql - DESKTOP-IVHRL9V.master (DESKTOP-IVHRL9V\Administrator (55))* - Microsoft SQL Server Management Studio (Administrator)
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New Query
master
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Object Explorer
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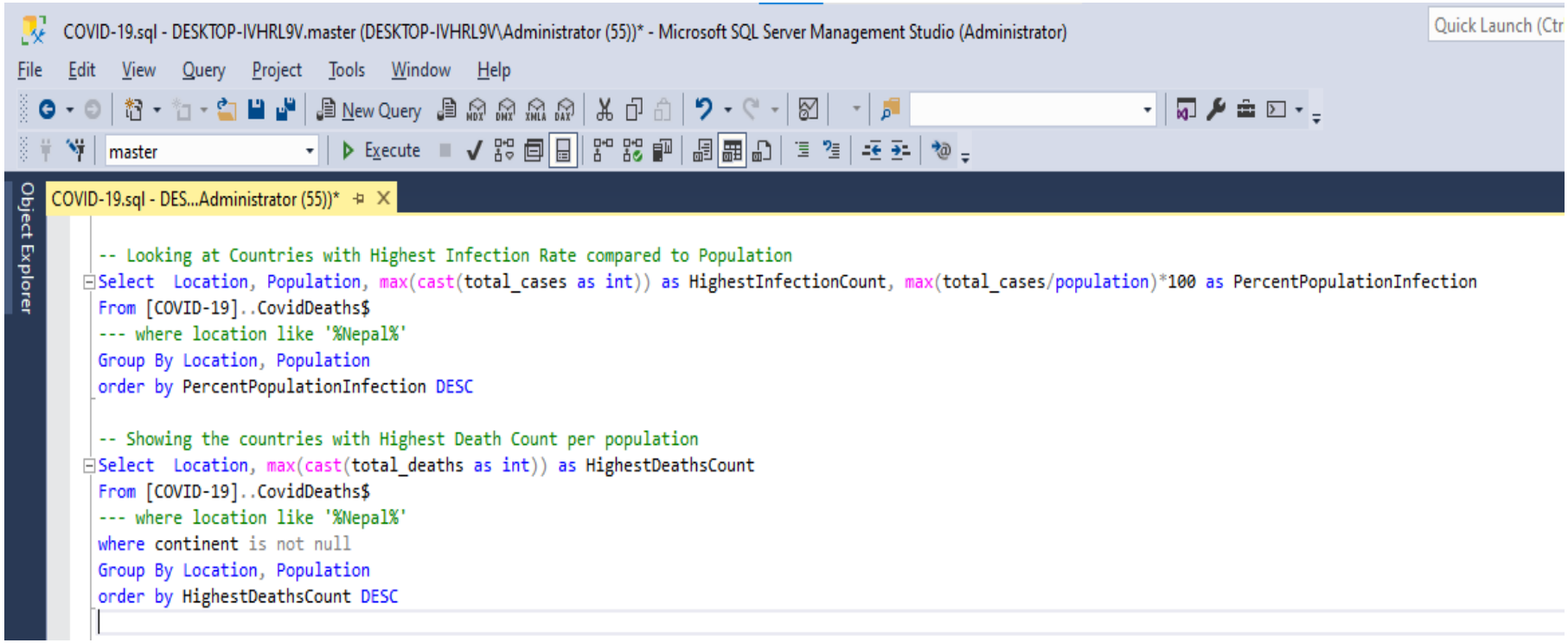
-- Data Analysis of COVID-19 Using MSSQL
Select *
From [COVID-19]..CovidDeaths$
order by 3,4
-- Select Data that we are going to be using
Select Location, date, total_cases, new_cases, total_deaths, population
From [COVID
column location(nvarchar, null)
order by 1,
-- Comparing Total Cases vs Total Deaths 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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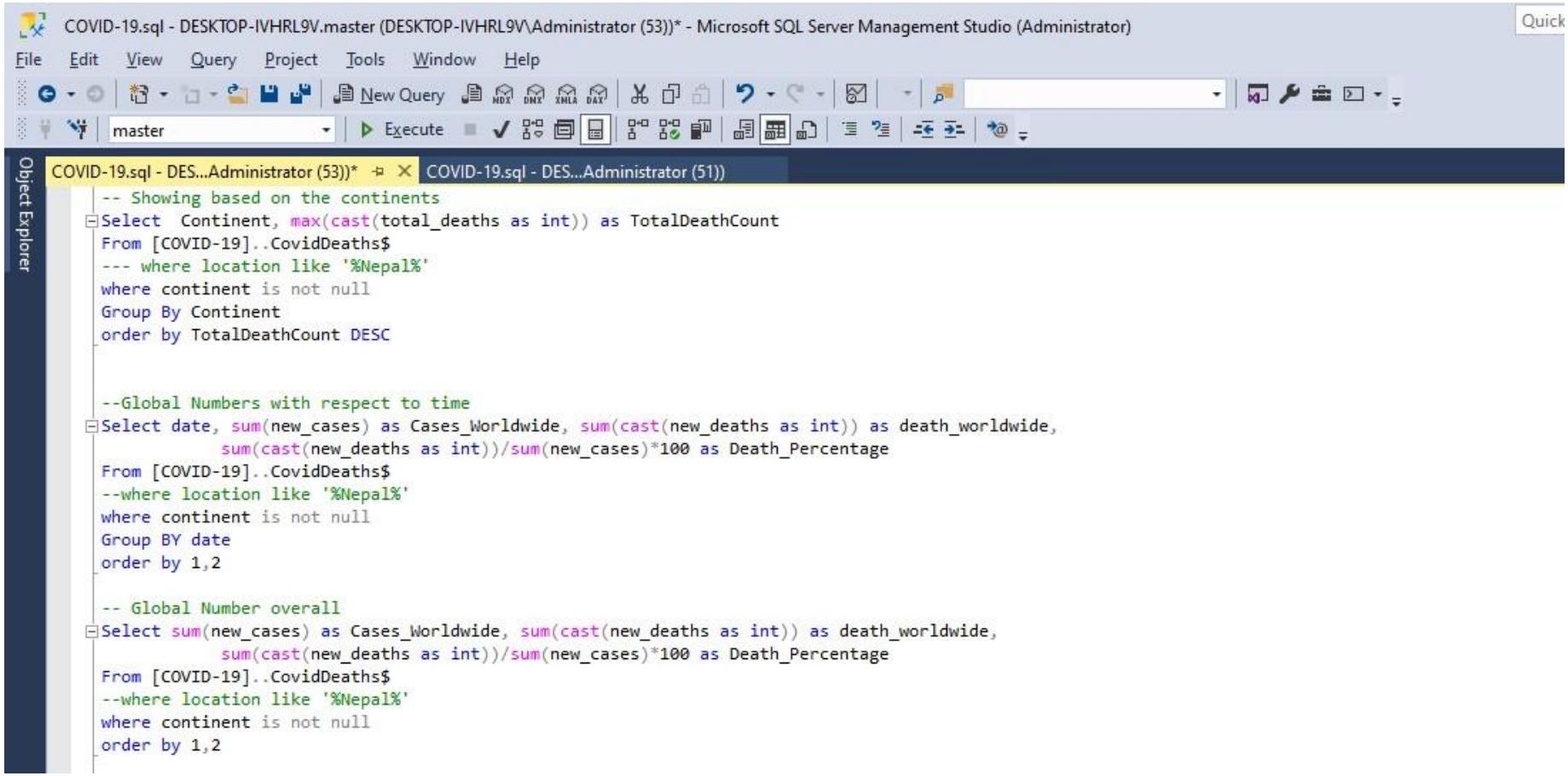
-- Looking at Countries with Highest Infection Rate compared to Population
Select Location, Population, max(cast(total_cases as int)) as HighestInfectionCount, max(total_cases/population)*100 as PercentPopulationInfection
From [COVID-19]..CovidDeaths$
--- where location like '%Nepal%'
Group By Location, 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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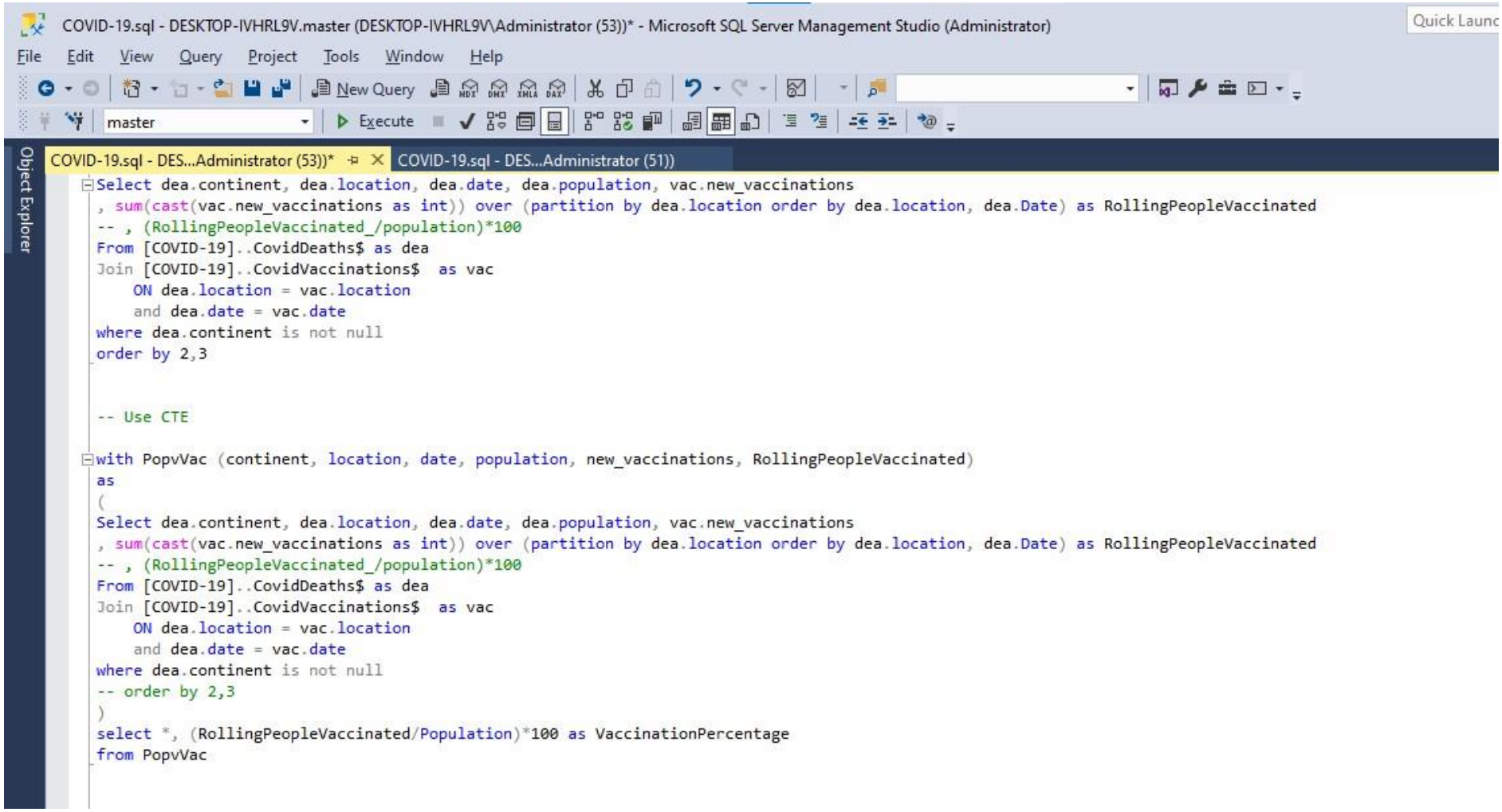
-- Showing based on the continents
Select Continent, max(cast(total_deaths as int)) as TotalDeathCount
From [COVID-19]..CovidDeaths$
--- where location like '%Nepal%'
where continent is not null
Group By Continent
order by TotalDeathCount DESC
--Global Numbers with respect to time
Select date, sum(new_cases) 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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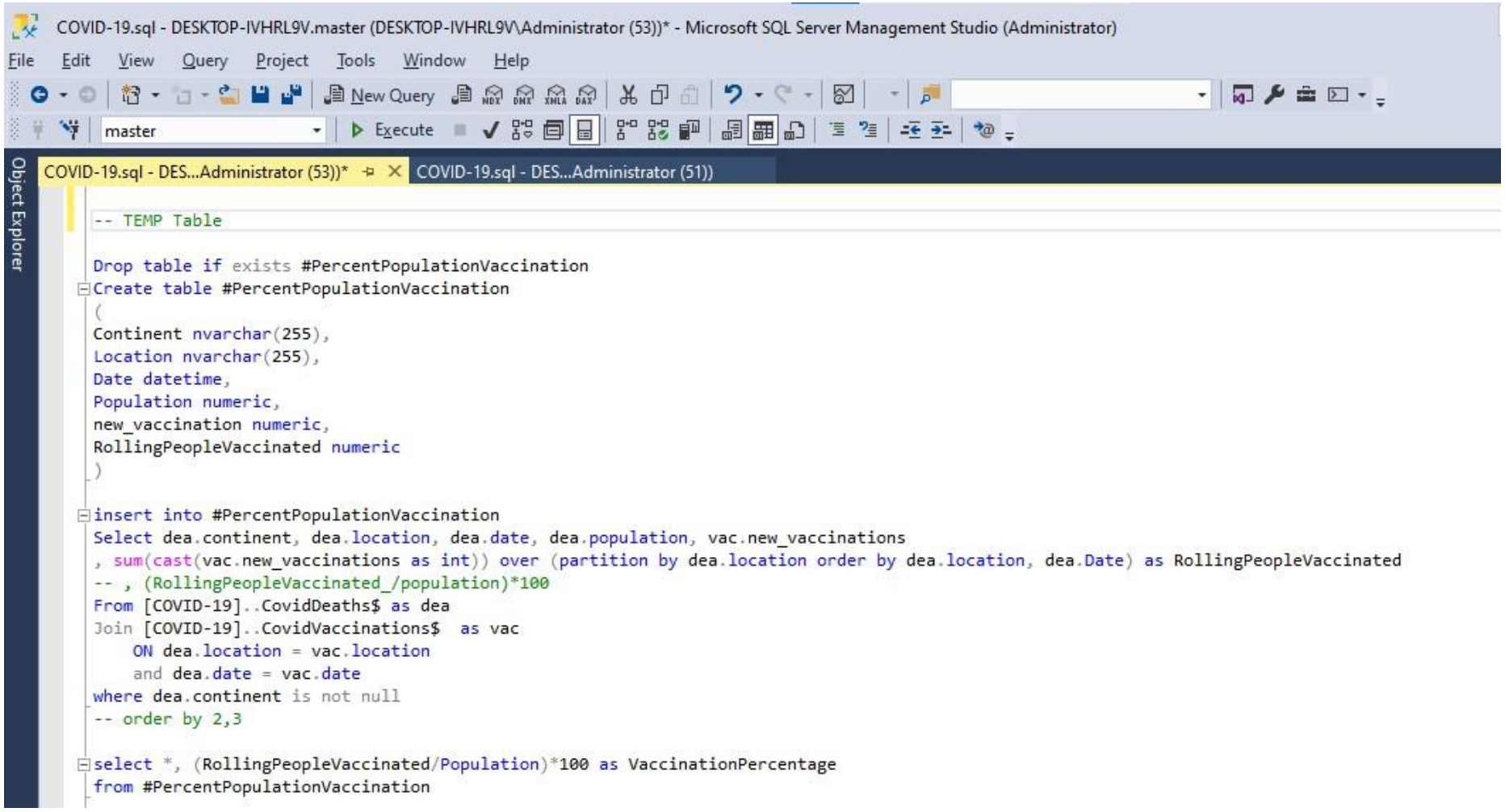
Select dea.continent, dea.location, dea.date, dea.population, vac.new_vaccinations
, sum(cast(vac.new_vaccinations as int)) over (partition by dea.location order by dea.location, dea.Date) as RollingPeopleVaccinated
-- , (RollingPeopleVaccinated_/population)*100
From [COVID-19]..CovidDeaths$ as dea
Join [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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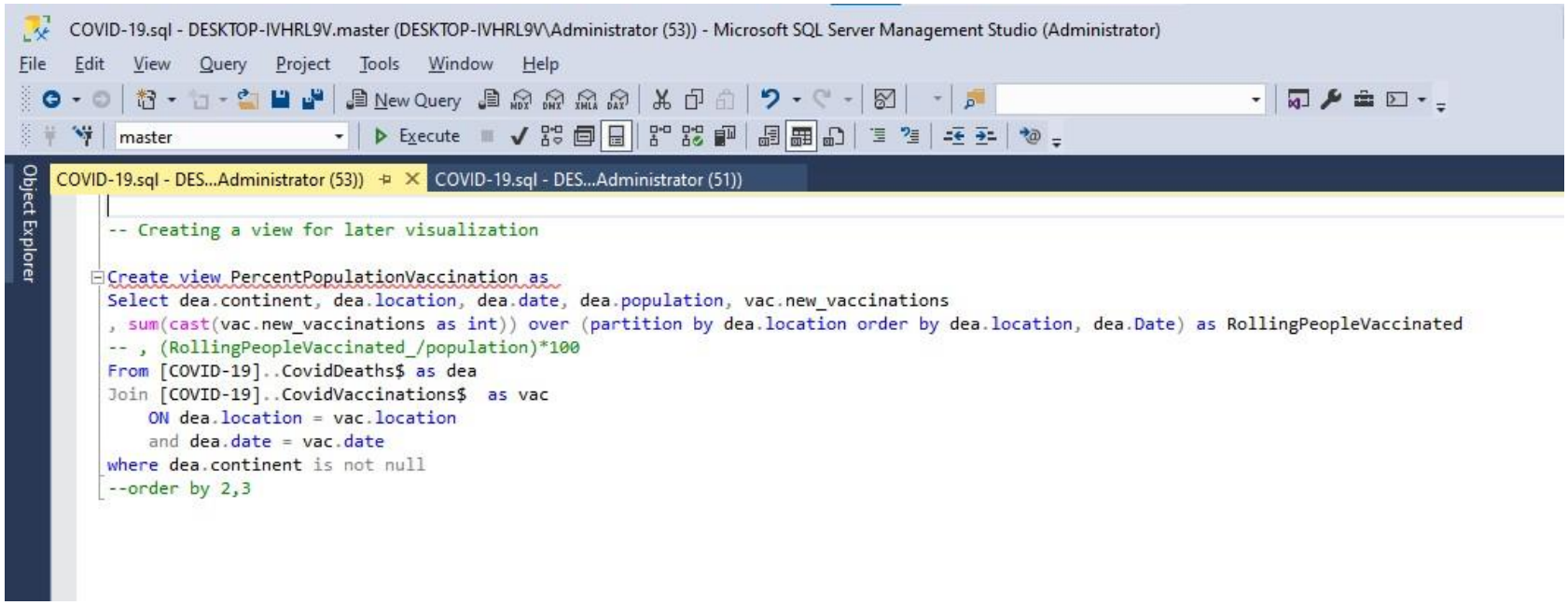
-- TEMP Table
Drop table if exists #PercentPopulationVaccination
Create table #PercentPopulationVaccination
(
Continent nvarchar(255),
Location nvarchar(255),
Date datetime,
Population numeric,
new_vaccination numeric,
RollingPeopleVaccinated numeric
)
insert into #PercentPopulationVaccination
Select 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