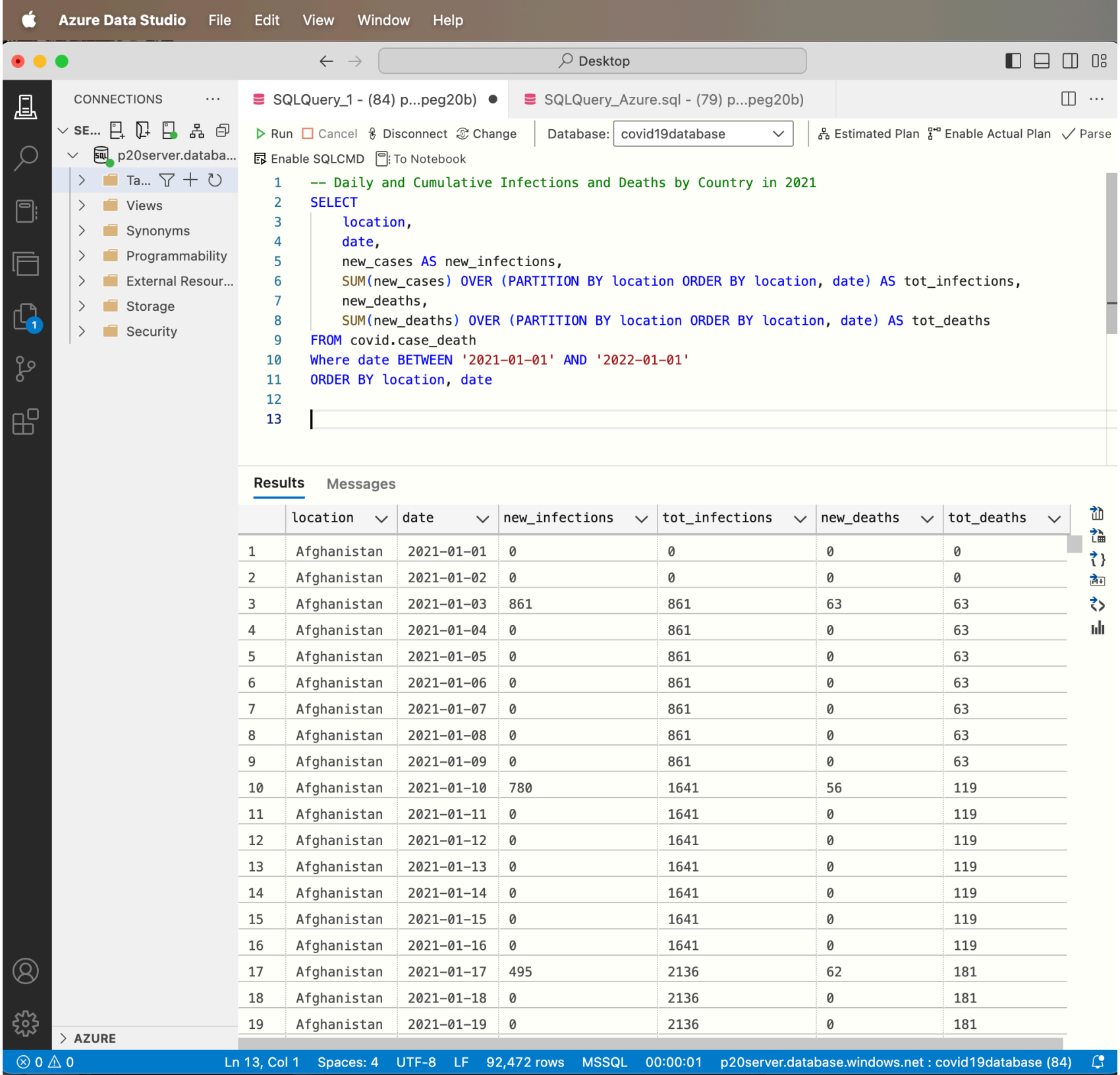
Azure Data Studio File Edit View Window Help
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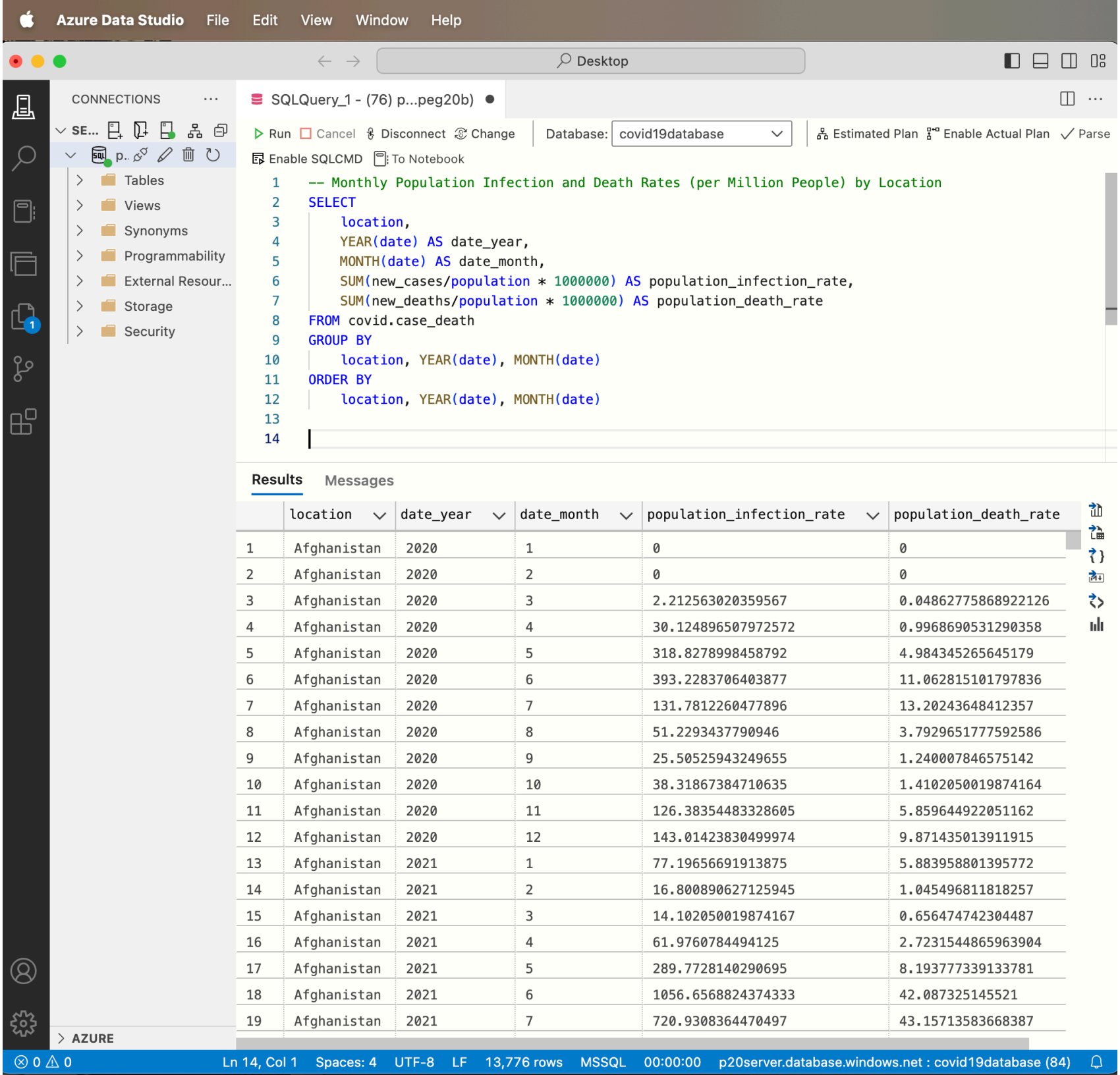
SQLQuery_1 - (84) p...peg20b)
SQLQuery_Azure.sql - (79) p...peg20b)
Run Cancel Disconnect Change
Database: covid19database
Estimated Plan Enable Actual Plan Parse
Enable SQLCMD To Notebook
1 -- Daily and Cumulative Infections and Deaths by Country in 2021
2 SELECT
3 location,
4 date,
5 new_cases AS new_infections,
6 SUM(new_cases) OVER (PARTITION BY location ORDER BY location, date) AS tot_infections,
7 new_deaths,
8 SUM(new_deaths) OVER (PARTITION BY location ORDER BY location, date) AS tot_deaths
9 FROM covid.case_death
10 Where date BETWEEN '2021-01-01' AND '2022-01-01'
11 ORDER BY location, date
12
13
Results
Messages
location date new_infections tot_infections new_deaths tot_deaths
1 Afghanistan 2021-01-01 0 0 0 0
2 Afghanistan 2021-01-02 0 0 0 0
3 Afghanistan 2021-01-03 861 861 63 63
4 Afghanistan 2021-01-04 0 861 0 63
5 Afghanistan 2021-01-05 0 861 0 63
6 Afghanistan 2021-01-06 0 861 0 63
7 Afghanistan 2021-01-07 0 861 0 63
8 Afghanistan 2021-01-08 0 861 0 63
9 Afghanistan 2021-01-09 0 861 0 63
10 Afghanistan 2021-01-10 780 1641 56 119
11 Afghanistan 2021-01-11 0 1641 0 119
12 Afghanistan 2021-01-12 0 1641 0 119
13 Afghanistan 2021-01-13 0 1641 0 119
14 Afghanistan 2021-01-14 0 1641 0 119
15 Afghanistan 2021-01-15 0 1641 0 119
16 Afghanistan 2021-01-16 0 1641 0 119
17 Afghanistan 2021-01-17 495 2136 62 181
18 Afghanistan 2021-01-18 0 2136 0 181
19 Afghanistan 2021-01-19 0 2136 0 181
0 0
Ln 13, Col 1 Spaces: 4 UTF-8 LF 92,472 rows MSSQL 00:00:01 p20server.database.windows.net : covid19database (84)


Azure Data Studio File Edit View Window Help
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Security
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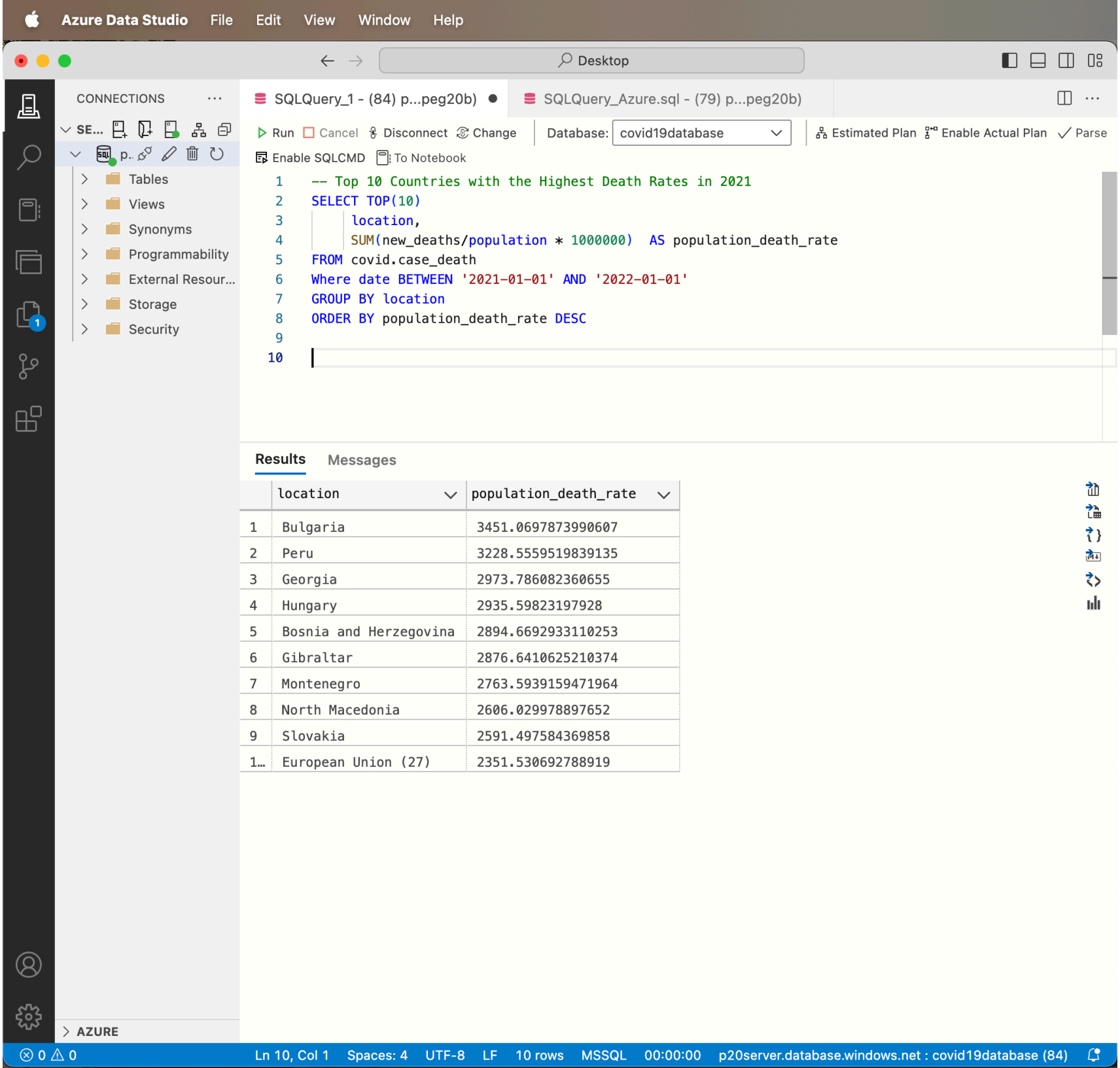
SQLQuery_1 - (76) p...peg20b)
Run Cancel Disconnect Change
Database: covid19database
Estimated Plan Enable Actual Plan Parse
Enable SQLCMD To Notebook
1 -- Monthly Population Infection and Death Rates (per Million People) by Location
2 SELECT
3 location,
4 YEAR(date) AS date_year,
5 MONTH(date) AS date_month,
6 SUM(new_cases/population * 1000000) AS population_infection_rate,
7 SUM(new_deaths/population * 1000000) AS population_death_rate
8 FROM covid.case_death
9 GROUP BY
10 location, YEAR(date), MONTH(date)
11 ORDER BY
12 location, YEAR(date), MONTH(date)
13
14
Results Messages
location date_year date_month population_infection_rate population_death_rate
1 Afghanistan 2020 1 0 0
2 Afghanistan 2020 2 0 0
3 Afghanistan 2020 3 2.212563020359567 0.04862775868922126
4 Afghanistan 2020 4 30.124896507972572 0.9968690531290358
5 Afghanistan 2020 5 318.8278998458792 4.984345265645179
6 Afghanistan 2020 6 393.2283706403877 11.062815101797836
7 Afghanistan 2020 7 131.7812260477896 13.20243648412357
8 Afghanistan 2020 8 51.2293437790946 3.7929651777592586
9 Afghanistan 2020 9 25.50525943249655 1.240007846575142
10 Afghanistan 2020 10 38.31867384710635 1.4102050019874164
11 Afghanistan 2020 11 126.38354483328605 5.859644922051162
12 Afghanistan 2020 12 143.01423830499974 9.871435013911915
13 Afghanistan 2021 1 77.19656691913875 5.883958801395772
14 Afghanistan 2021 2 16.800890627125945 1.045496811818257
15 Afghanistan 2021 3 14.102050019874167 0.656474742304487
16 Afghanistan 2021 4 61.9760784494125 2.7231544865963904
17 Afghanistan 2021 5 289.7728140290695 8.193777339133781
18 Afghanistan 2021 6 1056.6568824374333 42.087325145521
19 Afghanistan 2021 7 720.9308364470497 43.15713583668387
0 0 Ln 14, Col 1 Spaces: 4 UTF-8 LF 13,776 rows MSSQL 00:00:00 p20server.database.windows.net : covid19database (84)


Azure Data Studio File Edit View Window Help
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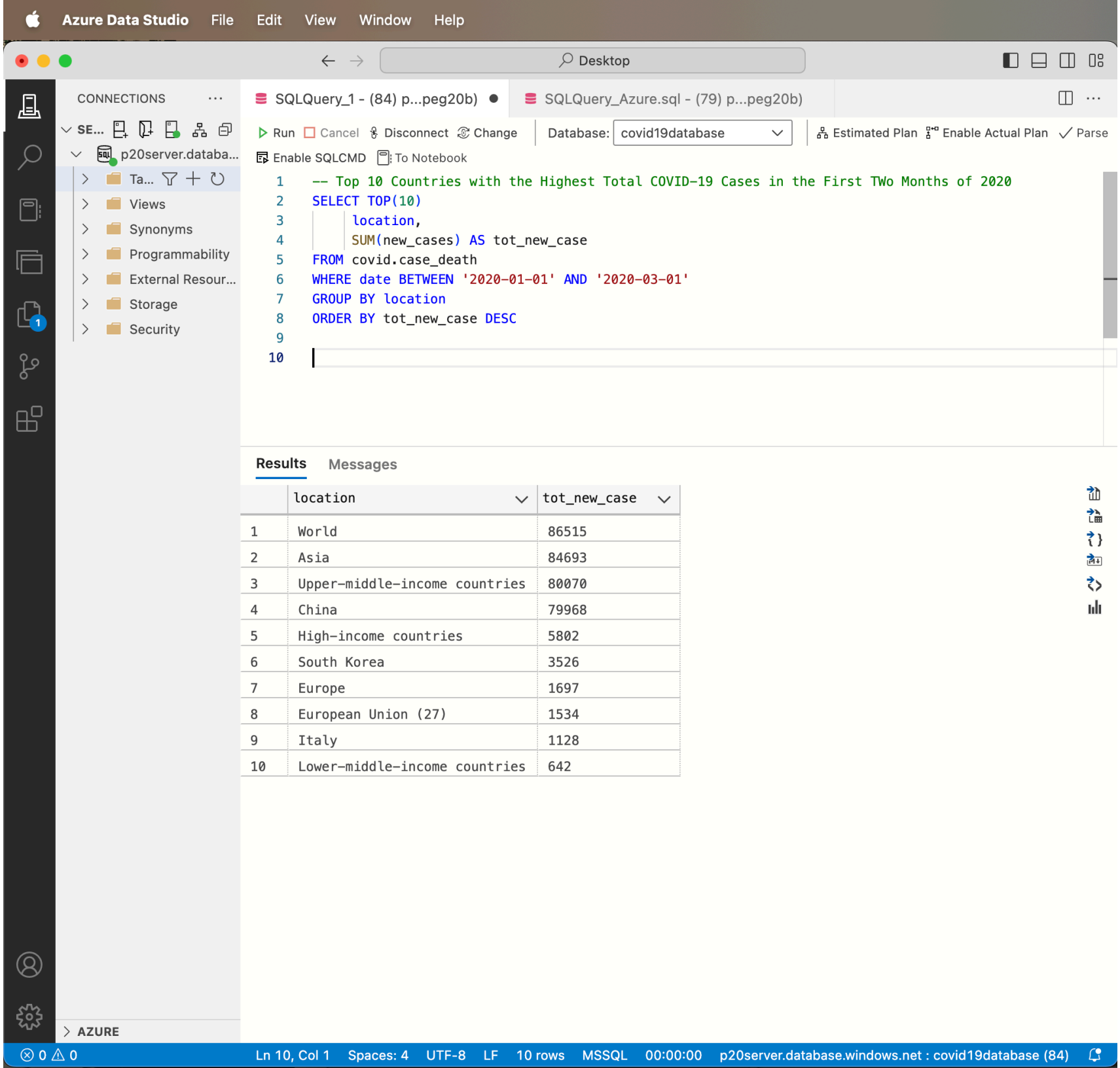
SQLQuery_1 - (84) p...peg20b)
SQLQuery_Azure.sql - (79) p...peg20b)
Run Cancel Disconnect Change
Database: covid19database
Estimated Plan Enable Actual Plan Parse
Enable SQLCMD To Notebook
1 -- Top 10 Countries with the Highest Death Rates in 2021
2 SELECT TOP(10)
3 location,
4 SUM(new_deaths/population * 1000000) AS population_death_rate
5 FROM covid.case_death
6 Where date BETWEEN '2021-01-01' AND '2022-01-01'
7 GROUP BY location
8 ORDER BY population_death_rate DESC
9
10
Results
Messages
location
population_death_rate
1 Bulgaria 3451.0697873990607
2 Peru 3228.5559519839135
3 Georgia 2973.786082360655
4 Hungary 2935.59823197928
5 Bosnia and Herzegovina 2894.6692933110253
6 Gibraltar 2876.6410625210374
7 Montenegro 2763.5939159471964
8 North Macedonia 2606.029978897652
9 Slovakia 2591.497584369858
1... European Union (27) 2351.530692788919
⊗ 0 ⚠ 0
Ln 10, Col 1 Spaces: 4 UTF-8 LF 10 rows MSSQL 00:00:00 p20server.database.windows.net : covid19database (84)


Azure Data Studio File Edit View Window Help
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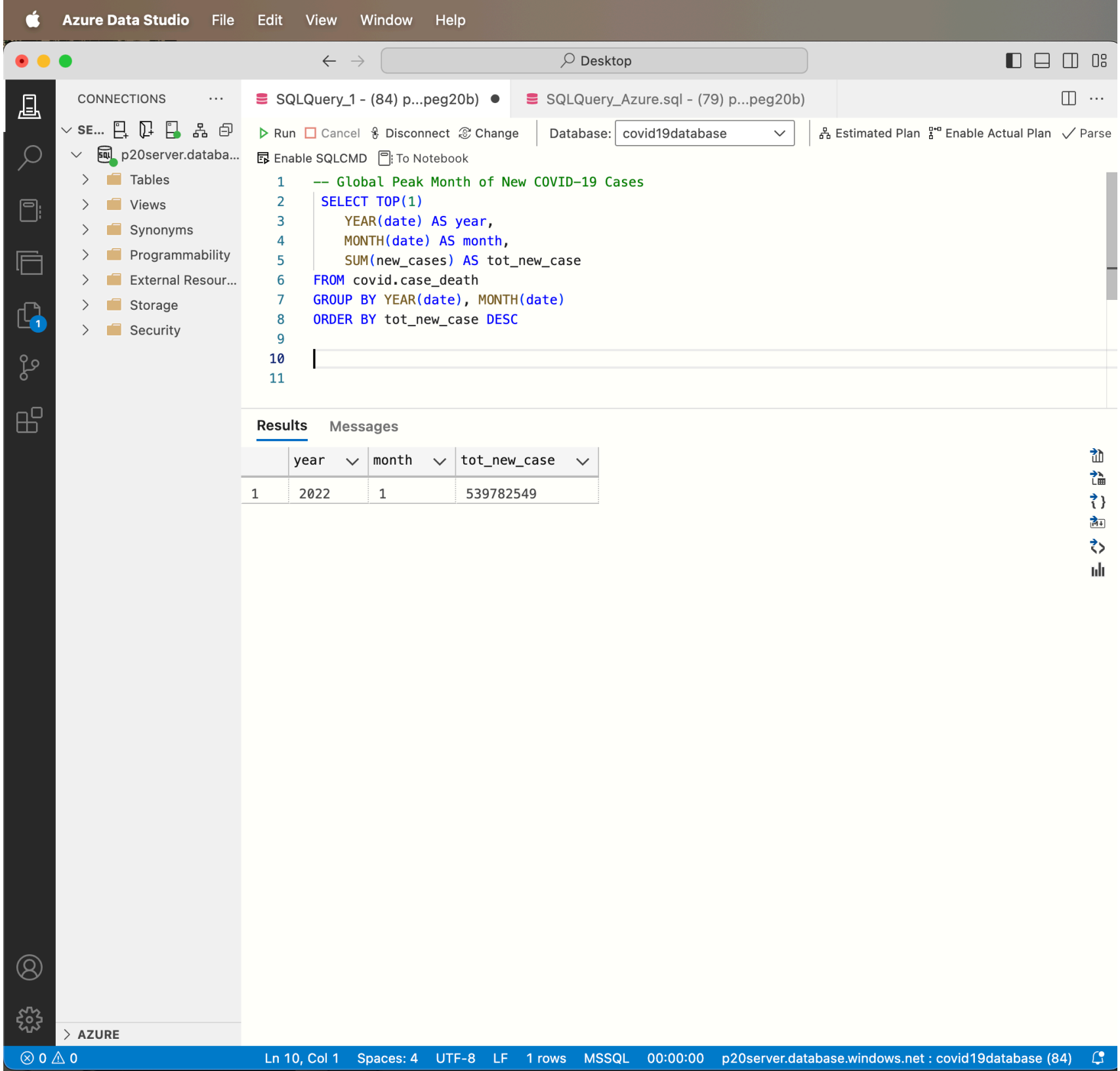
SQLQuery_1 - (84) p...peg20b)
SQLQuery_Azure.sql - (79) p...peg20b)
Run Cancel Disconnect Change
Database: covid19database
Estimated Plan Enable Actual Plan Parse
Enable SQLCMD To Notebook
1 -- Top 10 Countries with the Highest Total COVID-19 Cases in the First TWo Months of 2020
2 SELECT TOP(10)
3 location,
4 SUM(new_cases) AS tot_new_case
5 FROM covid.case_death
6 WHERE date BETWEEN '2020-01-01' AND '2020-03-01'
7 GROUP BY location
8 ORDER BY tot_new_case DESC
9
10
Results
Messages
location
tot_new_case
1 World 86515
2 Asia 84693
3 Upper-middle-income countries 80070
4 China 79968
5 High-income countries 5802
6 South Korea 3526
7 Europe 1697
8 European Union (27) 1534
9 Italy 1128
10 Lower-middle-income countries 642
0 0
Ln 10, Col 1 Spaces: 4 UTF-8 LF 10 rows MSSQL 00:00:00 p20server.database.windows.net : covid19database (84)


Azure Data Studio File Edit View Window Help
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SQLQuery_1 - (84) p...peg20b)
SQLQuery_Azure.sql - (79) p...peg20b)
Run
Cancel
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Database:
covid19database
Estimated Plan
Enable Actual Plan
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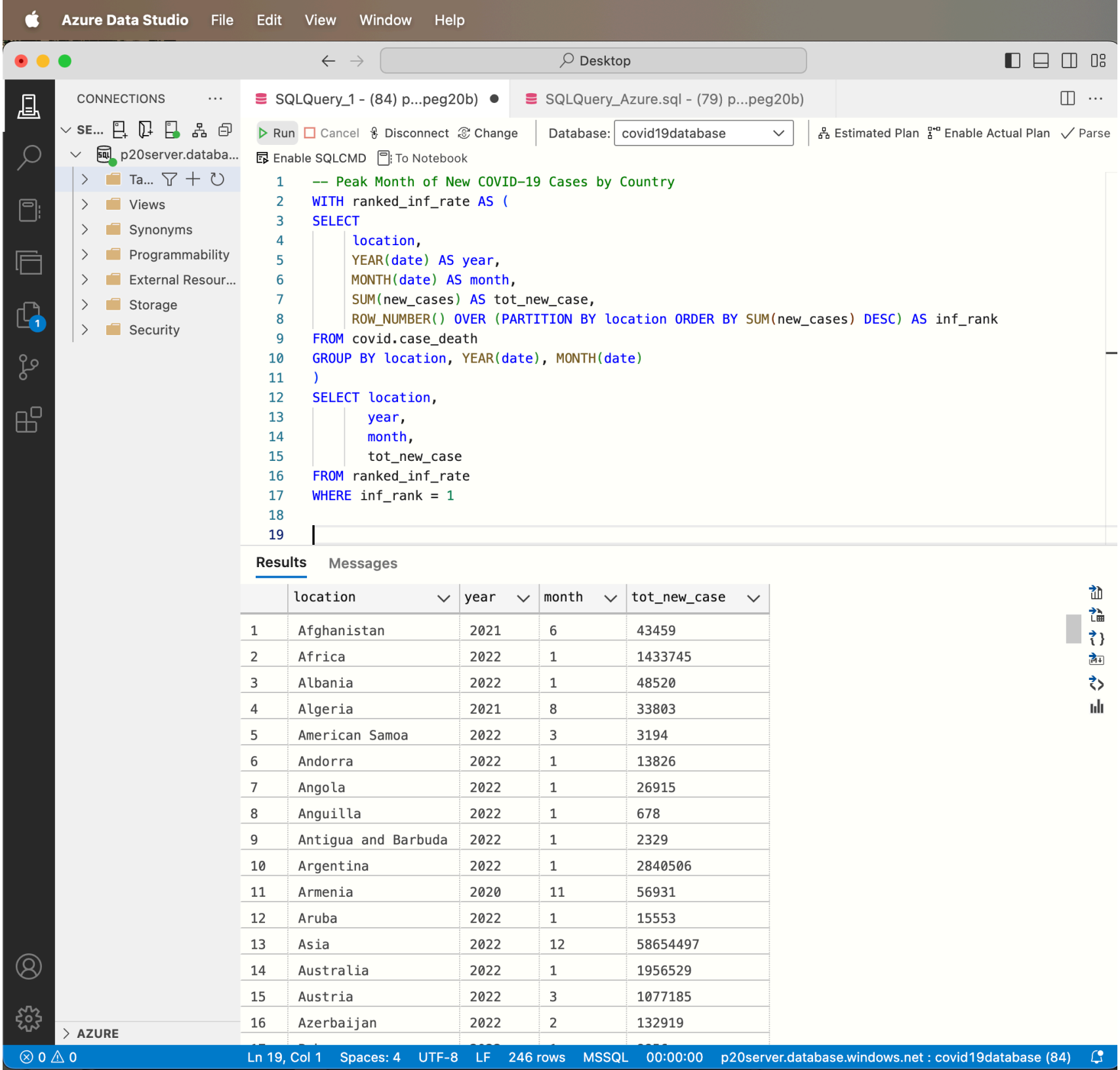
Enable SQLCMD
To Notebook
1 -- Global Peak Month of New COVID-19 Cases
2 SELECT TOP(1)
3 YEAR(date) AS year,
4 MONTH(date) AS month,
5 SUM(new_cases) AS tot_new_case
6 FROM covid.case_death
7 GROUP BY YEAR(date), MONTH(date)
8 ORDER BY tot_new_case DESC
9
10
11
Results
Messages
year
month
tot_new_case
1
2022
1
539782549
0 0
Ln 10, Col 1
Spaces: 4
UTF-8
LF
1 rows
MSSQL
00:00:00
p20server.database.windows.net : covid19database (84)


Azure Data Studio File Edit View Window Help
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SQLQuery_1 - (84) p...peg20b)
SQLQuery_Azure.sql - (79) p...peg20b)
Run
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Database: covid19database
Estimated Plan
Enable Actual Plan
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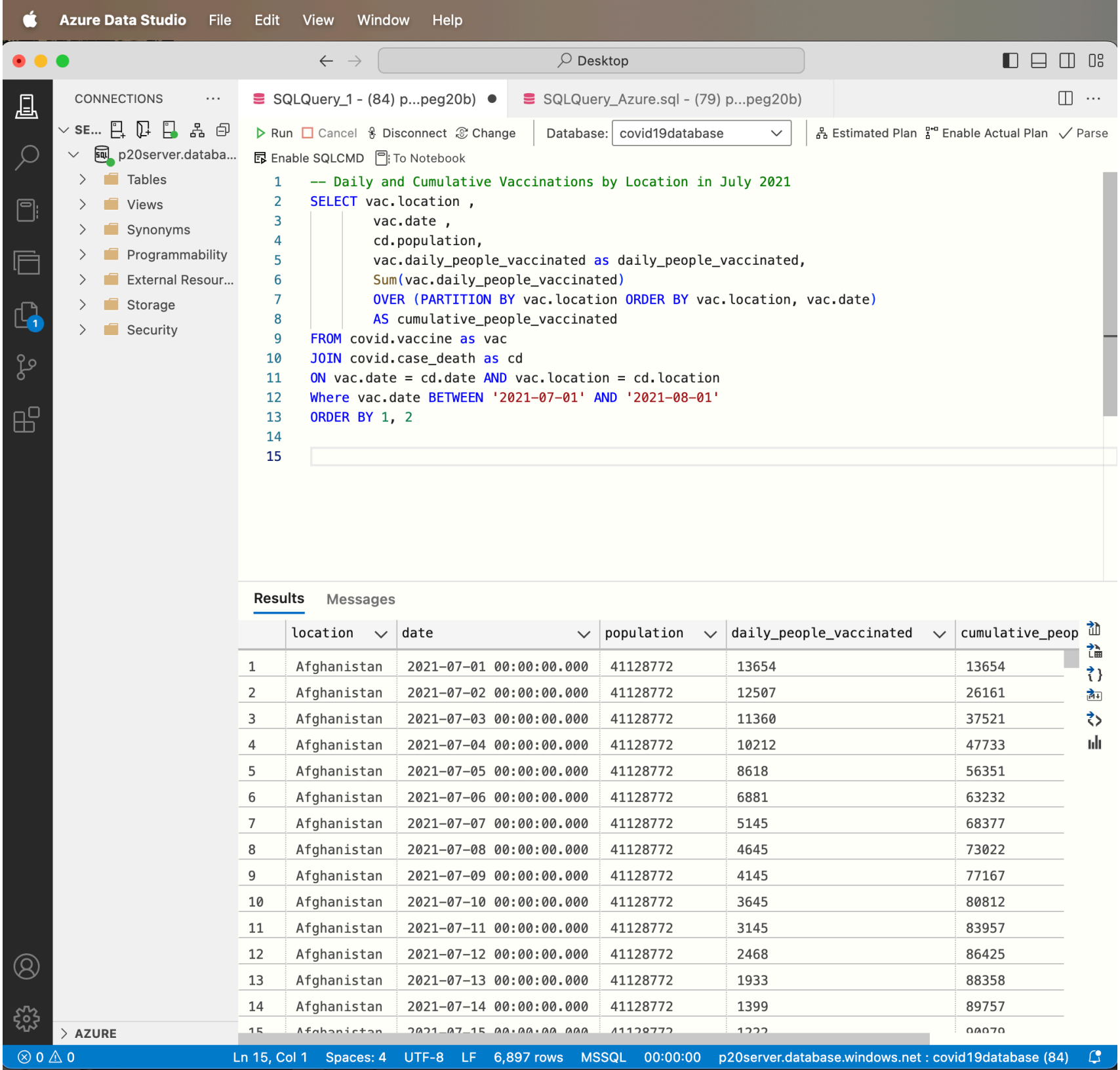
Enable SQLCMD
To Notebook
1 -- Peak Month of New COVID-19 Cases by Country
2 WITH ranked_inf_rate AS (
3 SELECT
4 location,
5 YEAR(date) AS year,
6 MONTH(date) AS month,
7 SUM(new_cases) AS tot_new_case,
8 ROW_NUMBER() OVER (PARTITION BY location ORDER BY SUM(new_cases) DESC) AS inf_rank
9 FROM covid.case_death
10 GROUP BY location, YEAR(date), MONTH(date)
11 )
12 SELECT location,
13 year,
14 month,
15 tot_new_case
16 FROM ranked_inf_rate
17 WHERE inf_rank = 1
18
19
Results
Messages
location
year
month
tot_new_case
1 Afghanistan 2021 6 43459
2 Africa 2022 1 1433745
3 Albania 2022 1 48520
4 Algeria 2021 8 33803
5 American Samoa 2022 3 3194
6 Andorra 2022 1 13826
7 Angola 2022 1 26915
8 Anguilla 2022 1 678
9 Antigua and Barbuda 2022 1 2329
10 Argentina 2022 1 2840506
11 Armenia 2020 11 56931
12 Aruba 2022 1 15553
13 Asia 2022 12 58654497
14 Australia 2022 1 1956529
15 Austria 2022 3 1077185
16 Azerbaijan 2022 2 132919
⊗ 0 ⚠ 0
Ln 19, Col 1
Spaces: 4
UTF-8
LF
246 rows
MSSQL
00:00:00
p20server.database.windows.net : covid19database (84)


Azure Data Studio File Edit View Window Help
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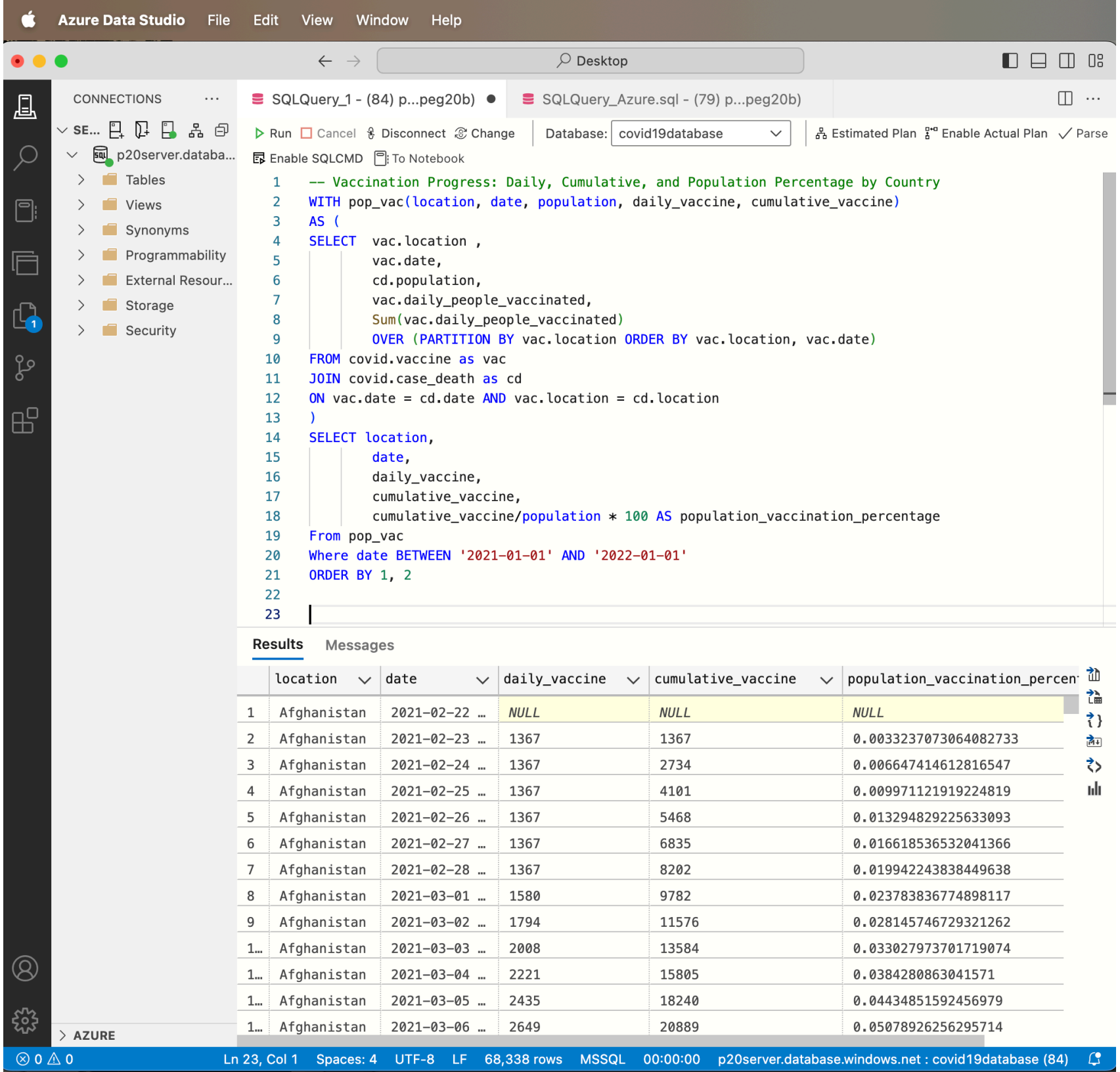
SQLQuery_1 - (84) p...peg20b)
SQLQuery_Azure.sql - (79) p...peg20b)
Run Cancel Disconnect Change
Database: covid19database
Estimated Plan Enable Actual Plan Parse
Enable SQLCMD To Notebook
1 -- Daily and Cumulative Vaccinations by Location in July 2021
2 SELECT vac.location ,
3 vac.date ,
4 cd.population,
5 vac.daily_people_vaccinated as daily_people_vaccinated,
6 Sum(vac.daily_people_vaccinated)
7 OVER (PARTITION BY vac.location ORDER BY vac.location, vac.date)
8 AS cumulative_people_vaccinated
9 FROM covid.vaccine as vac
10 JOIN covid.case_death as cd
11 ON vac.date = cd.date AND vac.location = cd.location
12 Where vac.date BETWEEN '2021-07-01' AND '2021-08-01'
13 ORDER BY 1, 2
14
15
Results Messages
location date population daily_people_vaccinated cumulative_peop
1 Afghanistan 2021-07-01 00:00:00.000 41128772 13654 13654
2 Afghanistan 2021-07-02 00:00:00.000 41128772 12507 26161
3 Afghanistan 2021-07-03 00:00:00.000 41128772 11360 37521
4 Afghanistan 2021-07-04 00:00:00.000 41128772 10212 47733
5 Afghanistan 2021-07-05 00:00:00.000 41128772 8618 56351
6 Afghanistan 2021-07-06 00:00:00.000 41128772 6881 63232
7 Afghanistan 2021-07-07 00:00:00.000 41128772 5145 68377
8 Afghanistan 2021-07-08 00:00:00.000 41128772 4645 73022
9 Afghanistan 2021-07-09 00:00:00.000 41128772 4145 77167
10 Afghanistan 2021-07-10 00:00:00.000 41128772 3645 80812
11 Afghanistan 2021-07-11 00:00:00.000 41128772 3145 83957
12 Afghanistan 2021-07-12 00:00:00.000 41128772 2468 86425
13 Afghanistan 2021-07-13 00:00:00.000 41128772 1933 88358
14 Afghanistan 2021-07-14 00:00:00.000 41128772 1399 89757
0 0
Ln 15, Col 1 Spaces: 4 UTF-8 LF 6,897 rows MSSQL 00:00:00 p20server.database.windows.net : covid19database (84)


Azure Data Studio File Edit View Window Help
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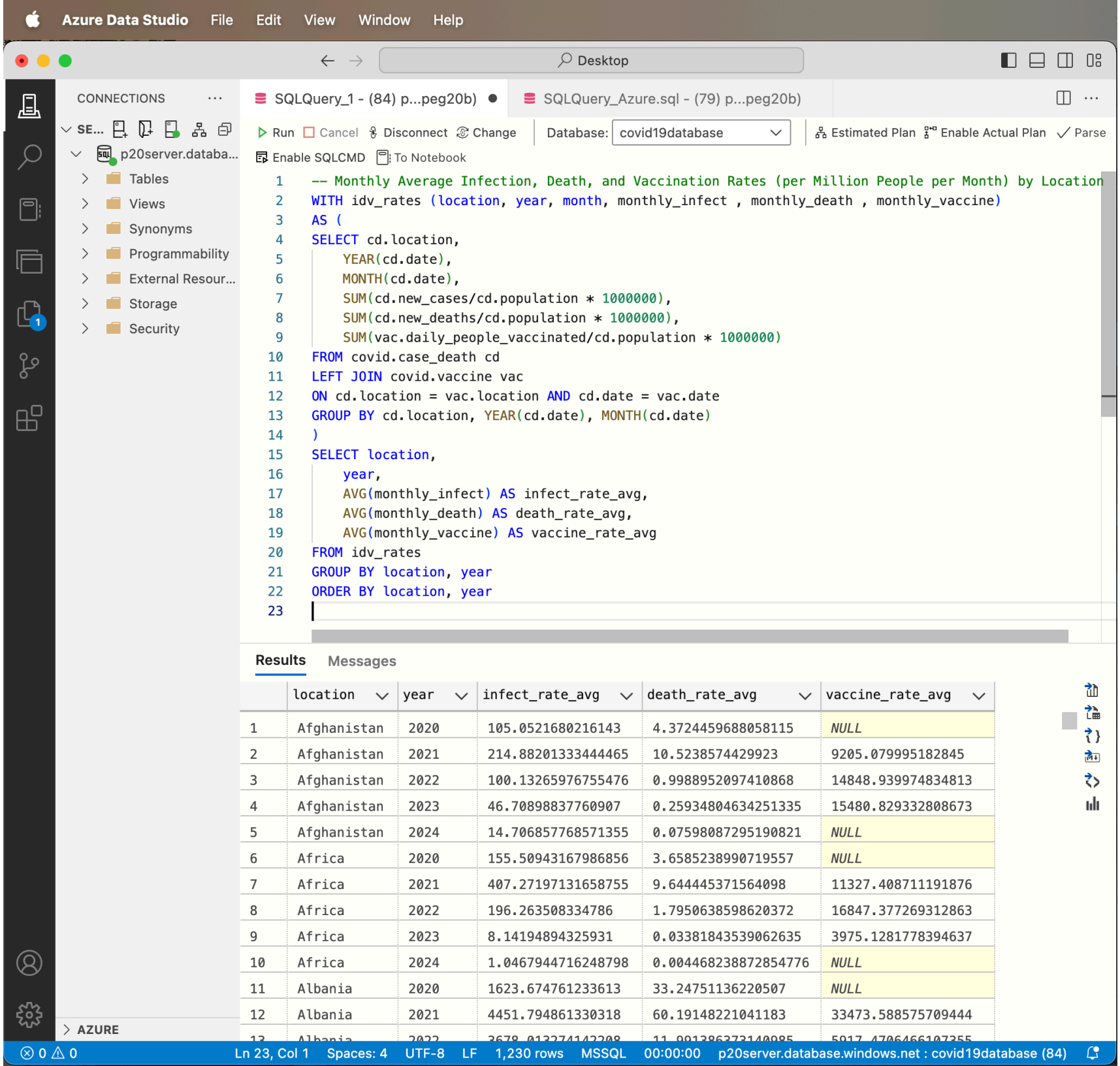
SQLQuery_1 - (84) p...peg20b)
SQLQuery_Azure.sql - (79) p...peg20b)
Run Cancel Disconnect Change
Database: covid19database
Estimated Plan Enable Actual Plan Parse
Enable SQLCMD To Notebook
1 -- Vaccination Progress: Daily, Cumulative, and Population Percentage by Country
2 WITH pop_vac(location, date, population, daily_vaccine, cumulative_vaccine)
3 AS (
4 SELECT vac.location ,
5 vac.date,
6 cd.population,
7 vac.daily_people_vaccinated,
8 Sum(vac.daily_people_vaccinated)
9 OVER (PARTITION BY vac.location ORDER BY vac.location, vac.date)
10 FROM covid.vaccine as vac
11 JOIN covid.case_death as cd
12 ON vac.date = cd.date AND vac.location = cd.location
13 )
14 SELECT location,
15 date,
16 daily_vaccine,
17 cumulative_vaccine,
18 cumulative_vaccine/population * 100 AS population_vaccination_percentage
19 From pop_vac
20 Where date BETWEEN '2021-01-01' AND '2022-01-01'
21 ORDER BY 1, 2
22
23
Results Messages
location date daily_vaccine cumulative_vaccine population_vaccination_percen
1 Afghanistan 2021-02-22 … NULL NULL NULL
2 Afghanistan 2021-02-23 … 1367 1367 0.0033237073064082733
3 Afghanistan 2021-02-24 … 1367 2734 0.006647414612816547
4 Afghanistan 2021-02-25 … 1367 4101 0.009971121919224819
5 Afghanistan 2021-02-26 … 1367 5468 0.013294829225633093
6 Afghanistan 2021-02-27 … 1367 6835 0.016618536532041366
7 Afghanistan 2021-02-28 … 1367 8202 0.019942243838449638
8 Afghanistan 2021-03-01 … 1580 9782 0.023783836774898117
9 Afghanistan 2021-03-02 … 1794 11576 0.028145746729321262
1… Afghanistan 2021-03-03 … 2008 13584 0.033027973701719074
1… Afghanistan 2021-03-04 … 2221 15805 0.0384280863041571
1… Afghanistan 2021-03-05 … 2435 18240 0.04434851592456979
1… Afghanistan 2021-03-06 … 2649 20889 0.05078926256295714
⊗ 0 ⚠ 0 Ln 23, Col 1 Spaces: 4 UTF-8 LF 68,338 rows MSSQL 00:00:00 p20server.database.windows.net : covid19database (84)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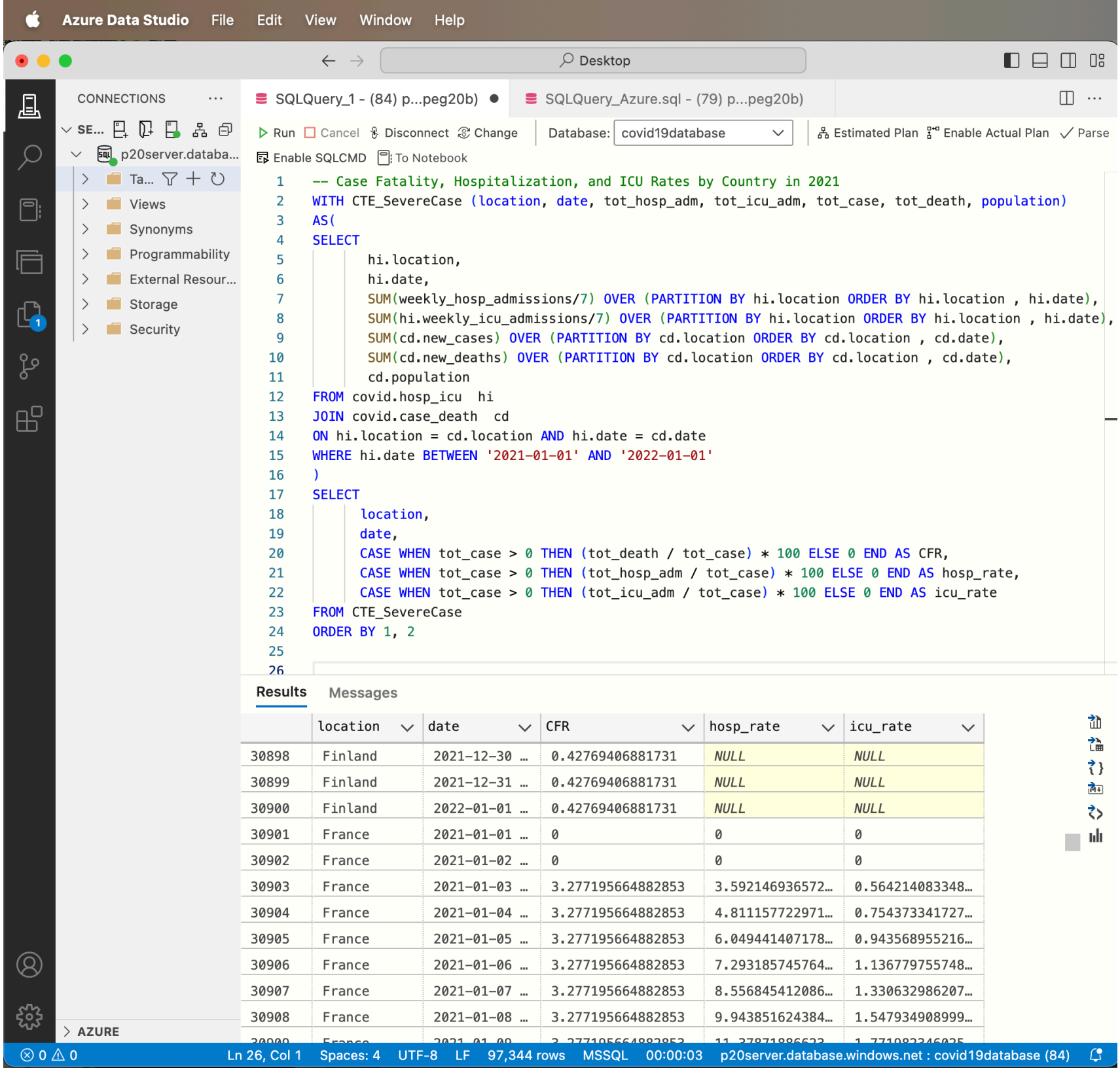
SQLQuery_1 - (84) p...peg20b)
SQLQuery_Azure.sql - (79) p...peg20b)
Run Cancel Disconnect Change
Database: covid19database
Estimated Plan Enable Actual Plan Parse
Enable SQLCMD To Notebook
1 -- Monthly Average Infection, Death, and Vaccination Rates (per Million People per Month) by Location
2 WITH idv_rates (location, year, month, monthly_infect , monthly_death , monthly_vaccine)
3 AS (
4 SELECT cd.location,
5 YEAR(cd.date),
6 MONTH(cd.date),
7 SUM(cd.new_cases/cd.population * 1000000),
8 SUM(cd.new_deaths/cd.population * 1000000),
9 SUM(vac.daily_people_vaccinated/cd.population * 1000000)
10 FROM covid.case_death cd
11 LEFT JOIN covid.vaccine vac
12 ON cd.location = vac.location AND cd.date = vac.date
13 GROUP BY cd.location, YEAR(cd.date), MONTH(cd.date)
14 )
15 SELECT location,
16 year,
17 AVG(monthly_infect) AS infect_rate_avg,
18 AVG(monthly_death) AS death_rate_avg,
19 AVG(monthly_vaccine) AS vaccine_rate_avg
20 FROM idv_rates
21 GROUP BY location, year
22 ORDER BY location, year
23
Results Messages
location year infect_rate_avg death_rate_avg vaccine_rate_avg
1 Afghanistan 2020 105.0521680216143 4.3724459688058115 NULL
2 Afghanistan 2021 214.88201333444465 10.5238574429923 9205.079995182845
3 Afghanistan 2022 100.13265976755476 0.9988952097410868 14848.939974834813
4 Afghanistan 2023 46.70898837760907 0.25934804634251335 15480.829332808673
5 Afghanistan 2024 14.706857768571355 0.07598087295190821 NULL
6 Africa 2020 155.50943167986856 3.6585238990719557 NULL
7 Africa 2021 407.27197131658755 9.644445371564098 11327.408711191876
8 Africa 2022 196.263508334786 1.7950638598620372 16847.377269312863
9 Africa 2023 8.14194894325931 0.03381843539062635 3975.1281778394637
10 Africa 2024 1.0467944716248798 0.004468238872854776 NULL
11 Albania 2020 1623.674761233613 33.24751136220507 NULL
12 Albania 2021 4451.794861330318 60.19148221041183 33473.588575709444
0 0 Ln 23, Col 1 Spaces: 4 UTF-8 LF 1,230 rows MSSQL 00:00:00 p20server.database.windows.net : covid19database (84)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SQLQuery_1 - (84) p...peg20b)
SQLQuery_Azure.sql - (79) p...peg20b)
Run Cancel Disconnect Change
Database: covid19database
Estimated Plan Enable Actual Plan Parse
Enable SQLCMD To Notebook
1 -- Case Fatality, Hospitalization, and ICU Rates by Country in 2021
2 WITH CTE_SevereCase (location, date, tot_hosp_adm, tot_icu_adm, tot_case, tot_death, population)
3 AS(
4 SELECT
5 hi.location,
6 hi.date,
7 SUM(weekly_hosp_admissions/7) OVER (PARTITION BY hi.location ORDER BY hi.location , hi.date),
8 SUM(hi.weekly_icu_admissions/7) OVER (PARTITION BY hi.location ORDER BY hi.location , hi.date),
9 SUM(cd.new_cases) OVER (PARTITION BY cd.location ORDER BY cd.location , cd.date),
10 SUM(cd.new_deaths) OVER (PARTITION BY cd.location ORDER BY cd.location , cd.date),
11 cd.population
12 FROM covid.hosp_icu hi
13 JOIN covid.case_death cd
14 ON hi.location = cd.location AND hi.date = cd.date
15 WHERE hi.date BETWEEN '2021-01-01' AND '2022-01-01'
16 )
17 SELECT
18 location,
19 date,
20 CASE WHEN tot_case > 0 THEN (tot_death / tot_case) * 100 ELSE 0 END AS CFR,
21 CASE WHEN tot_case > 0 THEN (tot_hosp_adm / tot_case) * 100 ELSE 0 END AS hosp_rate,
22 CASE WHEN tot_case > 0 THEN (tot_icu_adm / tot_case) * 100 ELSE 0 END AS icu_rate
23 FROM CTE_SevereCase
24 ORDER BY 1, 2
25
26
Results Messages
location date CFR hosp_rate icu_rate
30898 Finland 2021-12-30 … 0.42769406881731 NULL NULL
30899 Finland 2021-12-31 … 0.42769406881731 NULL NULL
30900 Finland 2022-01-01 … 0.42769406881731 NULL NULL
30901 France 2021-01-01 … 0 0 0
30902 France 2021-01-02 … 0 0 0
30903 France 2021-01-03 … 3.277195664882853 3.592146936572… 0.564214083348…
30904 France 2021-01-04 … 3.277195664882853 4.811157722971… 0.754373341727…
30905 France 2021-01-05 … 3.277195664882853 6.049441407178… 0.943568955216…
30906 France 2021-01-06 … 3.277195664882853 7.293185745764… 1.136779755748…
30907 France 2021-01-07 … 3.277195664882853 8.556845412086… 1.330632986207…
30908 France 2021-01-08 … 3.277195664882853 9.943851624384… 1.547934908999…
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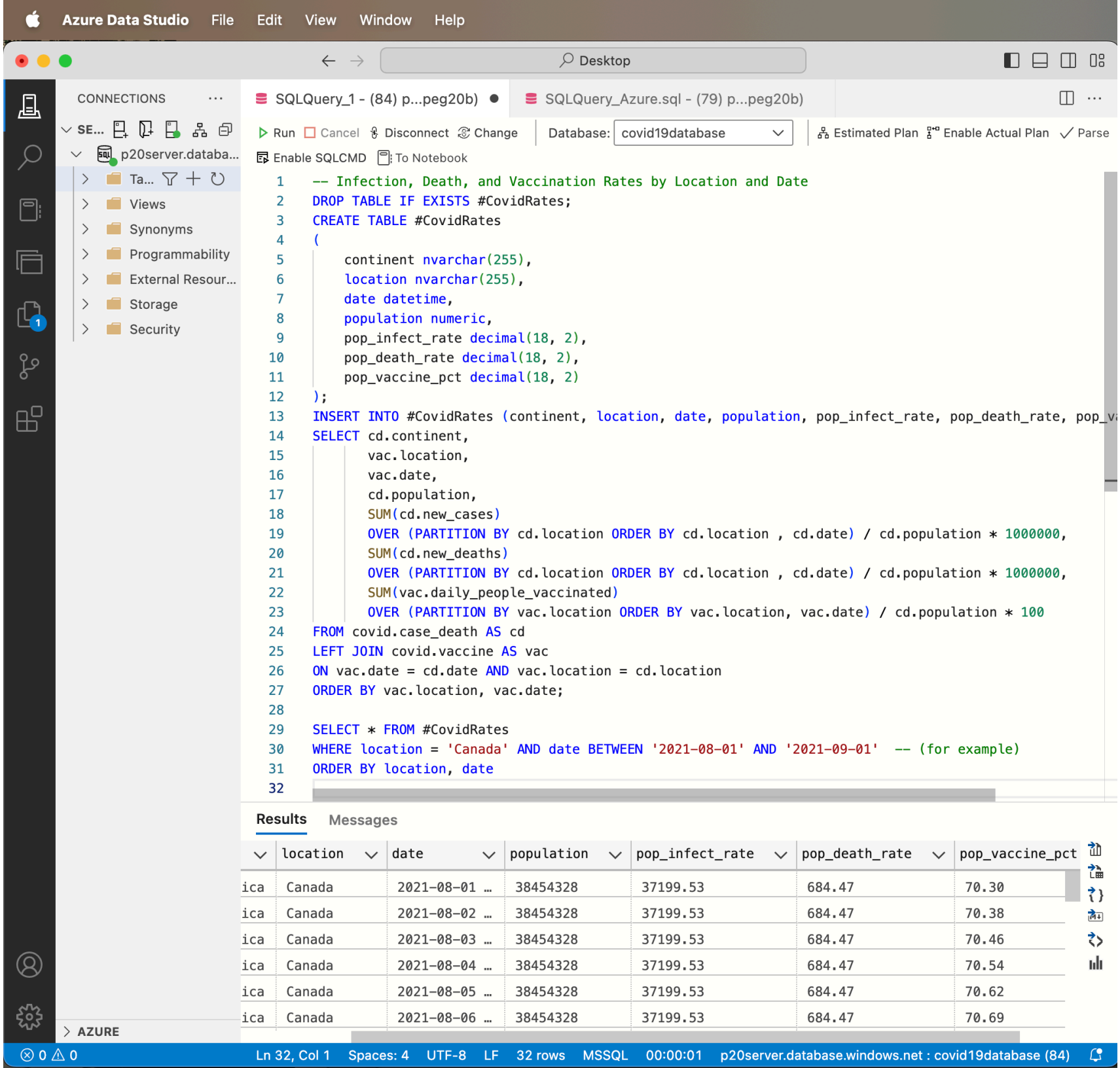
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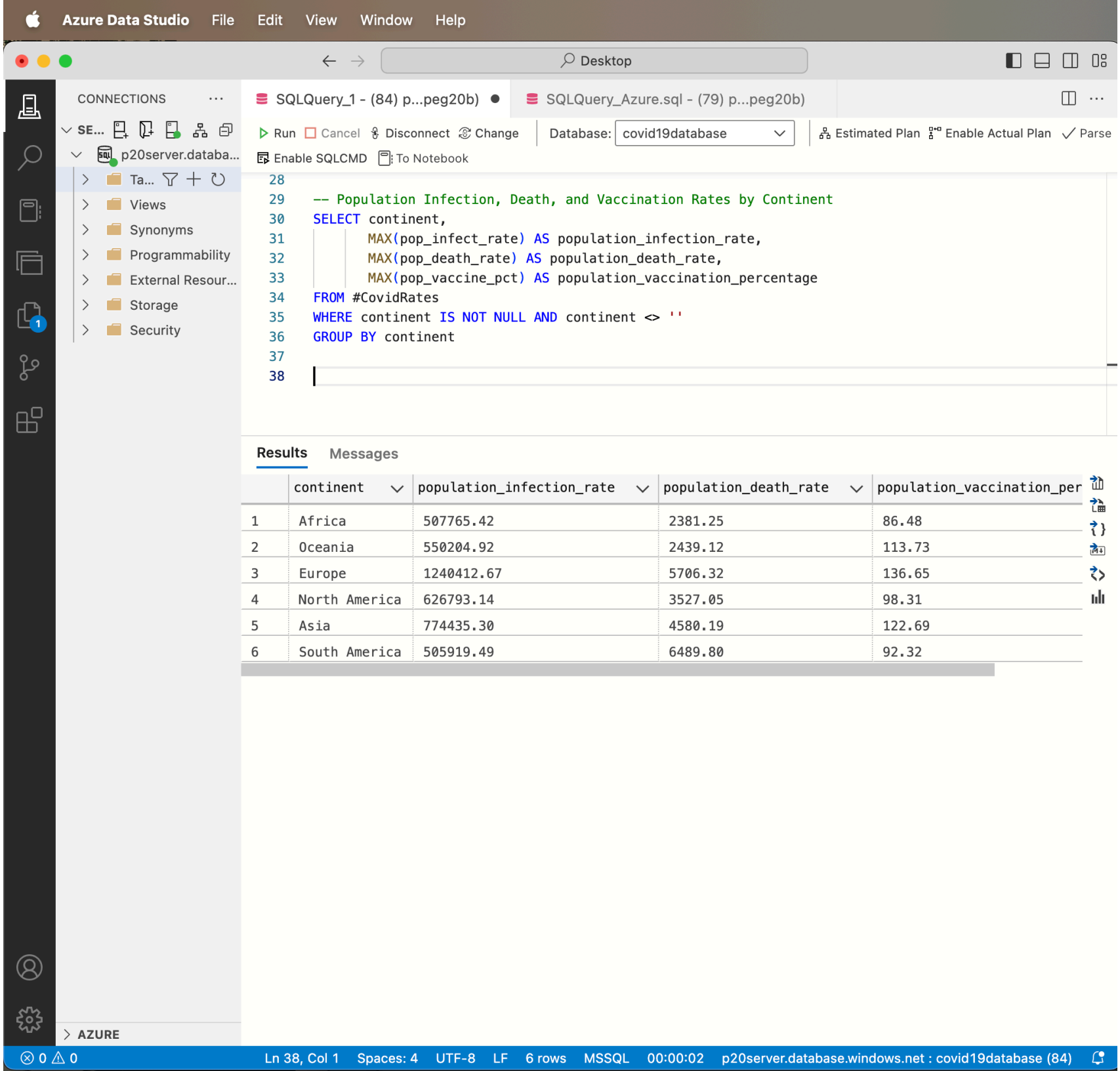
SQLQuery_1 - (84) p...peg20b)
SQLQuery_Azure.sql - (79) p...peg20b)
Run Cancel Disconnect Change
Database: covid19database
Estimated Plan Enable Actual Plan Parse
Enable SQLCMD To Notebook
1 -- Infection, Death, and Vaccination Rates by Location and Date
2 DROP TABLE IF EXISTS #CovidRates;
3 CREATE TABLE #CovidRates
4 (
5 continent nvarchar(255),
6 location nvarchar(255),
7 date datetime,
8 population numeric,
9 pop_infect_rate decimal(18, 2),
10 pop_death_rate decimal(18, 2),
11 pop_vaccine_pct decimal(18, 2)
12 );
13 INSERT INTO #CovidRates (continent, location, date, population, pop_infect_rate, pop_death_rate, pop_v
14 SELECT cd.continent,
15 vac.location,
16 vac.date,
17 cd.population,
18 SUM(cd.new_cases)
19 OVER (PARTITION BY cd.location ORDER BY cd.location , cd.date) / cd.population * 1000000,
20 SUM(cd.new_deaths)
21 OVER (PARTITION BY cd.location ORDER BY cd.location , cd.date) / cd.population * 1000000,
22 SUM(vac.daily_people_vaccinated)
23 OVER (PARTITION BY vac.location ORDER BY vac.location, vac.date) / cd.population * 100
24 FROM covid.case_death AS cd
25 LEFT JOIN covid.vaccine AS vac
26 ON vac.date = cd.date AND vac.location = cd.location
27 ORDER BY vac.location, vac.date;
28
29 SELECT * FROM #CovidRates
30 WHERE location = 'Canada' AND date BETWEEN '2021-08-01' AND '2021-09-01' -- (for example)
31 ORDER BY location, date
32
Results Messages
location date population pop_infect_rate pop_death_rate pop_vaccine_pct
ica Canada 2021-08-01 … 38454328 37199.53 684.47 70.30
ica Canada 2021-08-02 … 38454328 37199.53 684.47 70.38
ica Canada 2021-08-03 … 38454328 37199.53 684.47 70.46
ica Canada 2021-08-04 … 38454328 37199.53 684.47 70.54
ica Canada 2021-08-05 … 38454328 37199.53 684.47 70.62
ica Canada 2021-08-06 … 38454328 37199.53 684.47 70.69
⊗ 0 ⚠ 0 Ln 32, Col 1 Spaces: 4 UTF-8 LF 32 rows MSSQL 00:00:01 p20server.database.windows.net : covid19database (84)


Azure Data Studio File Edit View Window Help
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Run
Cancel
Disconnect
Change
Database: covid19database
Estimated Plan
Enable Actual Plan
Parse
Enable SQLCMD
To Notebook
28
29 -- Population Infection, Death, and Vaccination Rates by Continent
30 SELECT continent,
31 MAX(pop_infect_rate) AS population_infection_rate,
32 MAX(pop_death_rate) AS population_death_rate,
33 MAX(pop_vaccine_pct) AS population_vaccination_percentage
34 FROM #CovidRates
35 WHERE continent IS NOT NULL AND continent <> ''
36 GROUP BY continent
37
38
Results
Messages
continent
population_infection_rate
population_death_rate
population_vaccination_per
1 Africa 507765.42 2381.25 86.48
2 Oceania 550204.92 2439.12 113.73
3 Europe 1240412.67 5706.32 136.65
4 North America 626793.14 3527.05 98.31
5 Asia 774435.30 4580.19 122.69
6 South America 505919.49 6489.80 92.32
0 0
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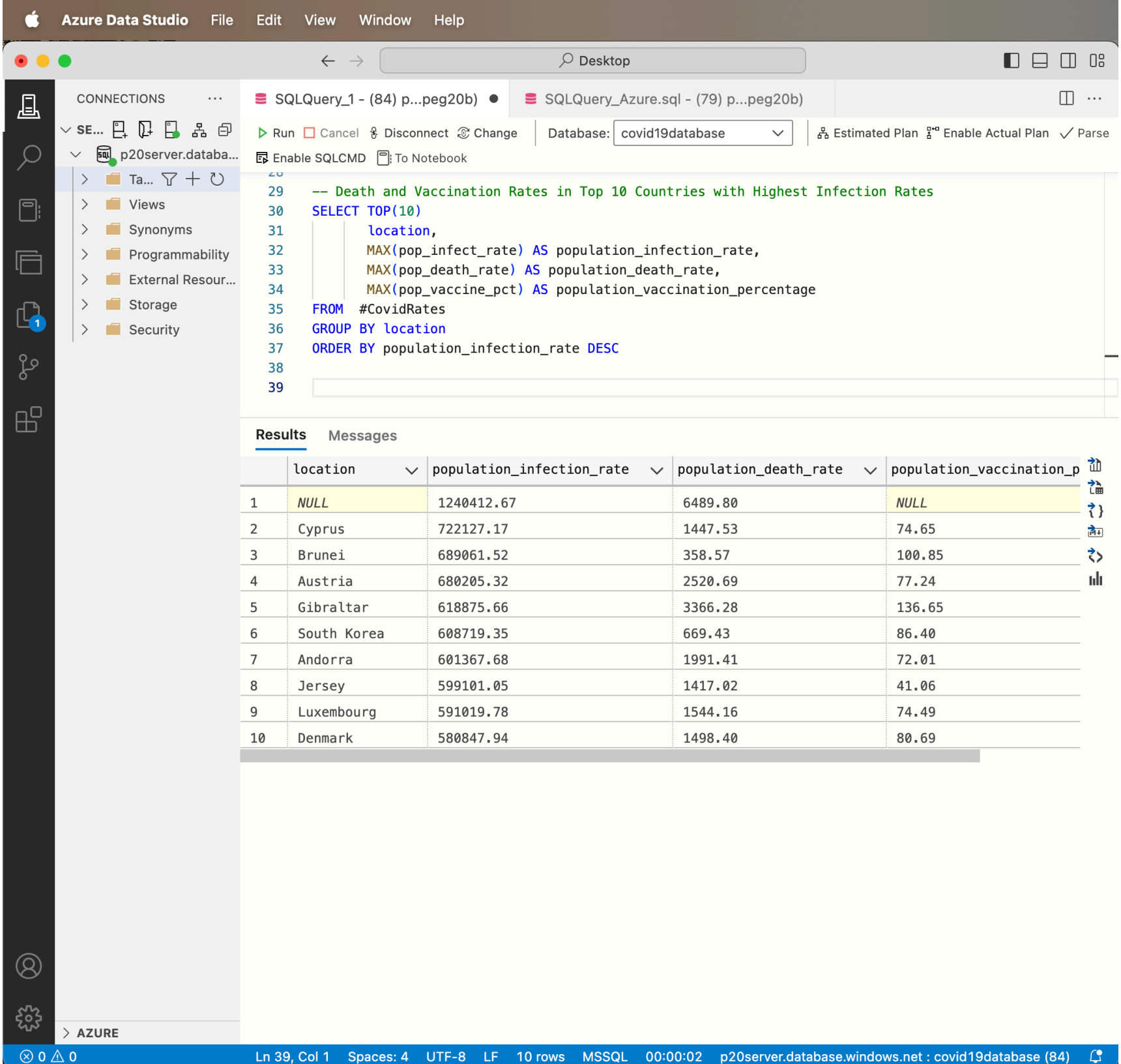
Azure Data Studio File Edit View Window Help
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SQLQuery_Azure.sql - (79) p...peg20b)
Run
Cancel
Disconnect
Change
Database:
covid19database
Estimated Plan
Enable Actual Plan
Parse
Enable SQLCMD
To Notebook
-- Death and Vaccination Rates in Top 10 Countries with Highest Infection Rates
SELECT TOP(10)
location,
MAX(pop_infect_rate) AS population_infection_rate,
MAX(pop_death_rate) AS population_death_rate,
MAX(pop_vaccine_pct) AS population_vaccination_percentage
FROM #CovidRates
GROUP BY location
ORDER BY population_infection_rate DESC
Results
Messages
location
population_infection_rate
population_death_rate
population_vaccination_p
1 NULL 1240412.67 6489.80 NULL
2 Cyprus 722127.17 1447.53 74.65
3 Brunei 689061.52 358.57 100.85
4 Austria 680205.32 2520.69 77.24
5 Gibraltar 618875.66 3366.28 136.65
6 South Korea 608719.35 669.43 86.40
7 Andorra 601367.68 1991.41 72.01
8 Jersey 599101.05 1417.02 41.06
9 Luxembourg 591019.78 1544.16 74.49
10 Denmark 580847.94 1498.40 80.69
0 0
Ln 39, Col 1 Spaces: 4 UTF-8 LF 10 rows MSSQL 00:00:02 p20server.database.windows.net : covid19database (84)