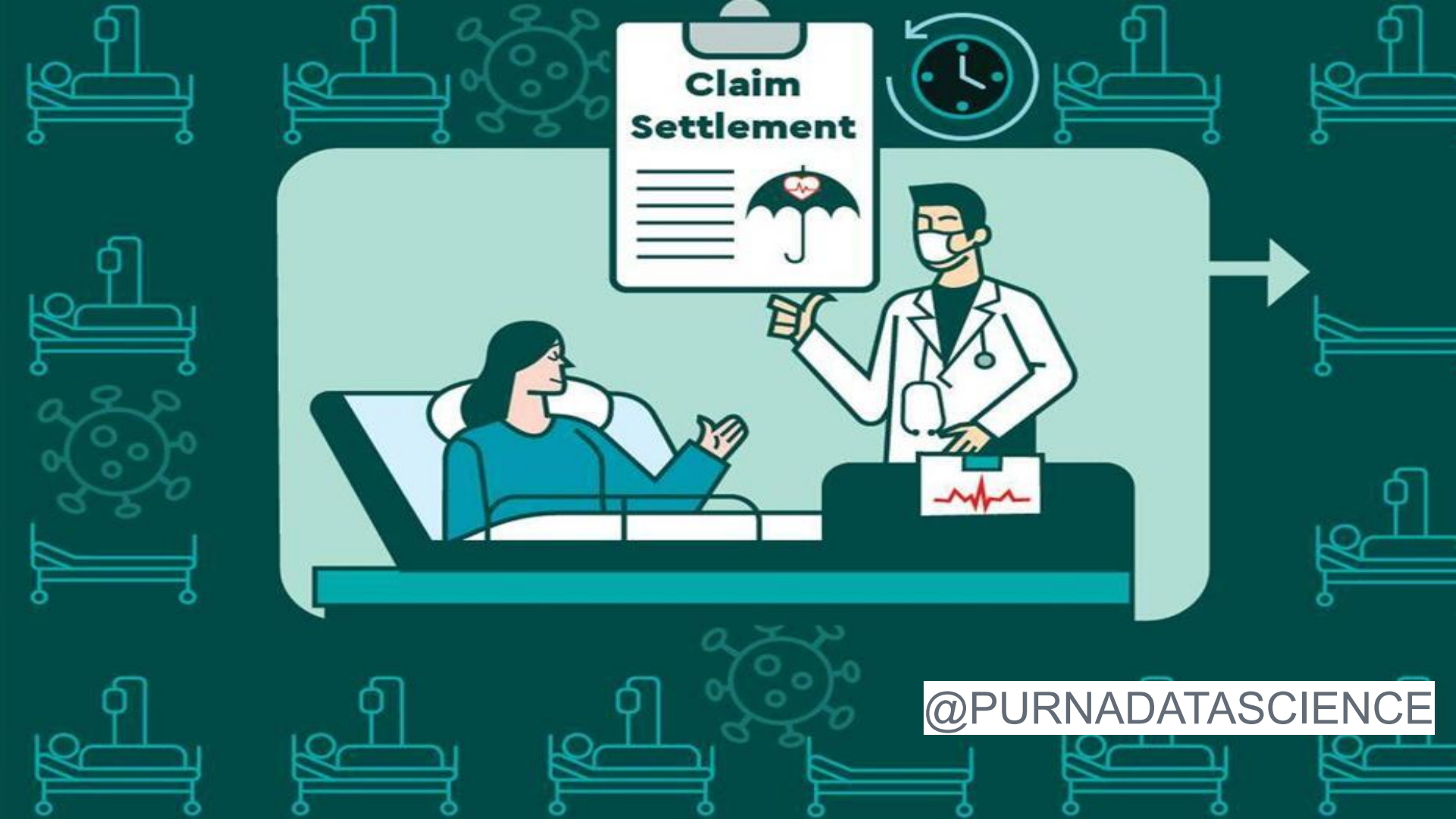


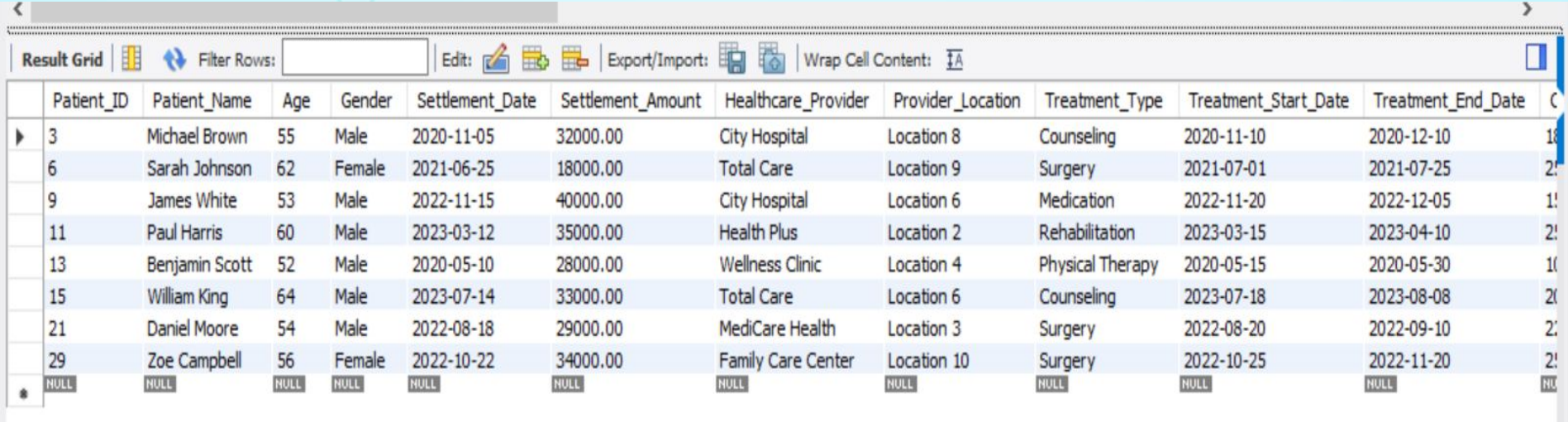
@PURNADATASCIENCE

Overview

This project involves analyzing healthcare data to provide insights into various aspects of patient care and provider performance. The dataset includes information on patient treatments, healthcare providers, and insurance coverage, with a focus on evaluating treatment costs, insurance coverage, and follow-up requirements.

List all treatments involving surgery:

SELECT * FROM HealthcareData WHERE Age > 50;



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

Patient_ID	Patient_Name	Age	Gender	Settlement_Date	Settlement_Amount	Healthcare_Provider	Provider_Location	Treatment_Type	Treatment_Start_Date	Treatment_End_Date	C
3	Michael Brown	55	Male	2020-11-05	32000.00	City Hospital	Location 8	Counseling	2020-11-10	2020-12-10	1
6	Sarah Johnson	62	Female	2021-06-25	18000.00	Total Care	Location 9	Surgery	2021-07-01	2021-07-25	2
9	James White	53	Male	2022-11-15	40000.00	City Hospital	Location 6	Medication	2022-11-20	2022-12-05	1
11	Paul Harris	60	Male	2023-03-12	35000.00	Health Plus	Location 2	Rehabilitation	2023-03-15	2023-04-10	2
13	Benjamin Scott	52	Male	2020-05-10	28000.00	Wellness Clinic	Location 4	Physical Therapy	2020-05-15	2020-05-30	1
15	William King	64	Male	2023-07-14	33000.00	Total Care	Location 6	Counseling	2023-07-18	2023-08-08	2
21	Daniel Moore	54	Male	2022-08-18	29000.00	MediCare Health	Location 3	Surgery	2022-08-20	2022-09-10	2
29	Zoe Campbell	56	Female	2022-10-22	34000.00	Family Care Center	Location 10	Surgery	2022-10-25	2022-11-20	2
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NU

List all treatments involving surgery:

```
85  -- List all treatments involving surgery:
86  -- Write a query to list all patients who underwent surgery.
87  SELECT
88      *
89  FROM
90      HealthcareData
91  WHERE
92      Treatment_Type = 'Surgery';
93
```

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

Patient_ID	Patient_Name	Age	Gender	Settlement_Date	Settlement_Amount	Healthcare_Provider	Provider_Location	Treatment_Type	Treatment_Start_Date	Treatment_End_Date	Cost_of_Treatme
1	John Doe	42	Male	2022-05-14	20000.00	MediCare Health	Location 5	Surgery	2022-05-20	2022-06-15	15000.00
6	Sarah Johnson	62	Female	2021-06-25	18000.00	Total Care	Location 9	Surgery	2021-07-01	2021-07-25	25000.00
10	Laura Thompson	45	Female	2021-01-22	27000.00	Family Care Center	Location 3	Surgery	2021-01-28	2021-02-20	20000.00
12	Olivia Green	38	Female	2021-08-18	22000.00	City Hospital	Location 5	Surgery	2021-08-22	2021-09-12	16000.00
16	Ava Adams	29	Female	2021-10-10	25000.00	MediCare Health	Location 9	Surgery	2021-10-15	2021-11-05	20000.00
21	Daniel Moore	54	Male	2022-08-18	29000.00	MediCare Health	Location 3	Surgery	2022-08-20	2022-09-10	22000.00
29	Zoe Campbell	56	Female	2022-10-22	34000.00	Family Care Center	Location 10	Surgery	2022-10-25	2022-11-20	25000.00
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Count the number of male and female patients:

```
94   -- Count the number of male and female patients:
95   -- Write a query to count how many male and female patients are in the dataset.
96   SELECT
97       Gender, COUNT(*) AS NumberOfPatients
98   FROM
99       HealthcareData
100  GROUP BY Gender;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Gender	NumberOfPatients
Male	16
Female	14

Identify patients who required follow-up:

```
104  SELECT
105      *
106  FROM
107      HealthcareData
108  WHERE
109      Follow_Up_Required = 'Yes';
110
```

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

Patient_ID	Patient_Name	Age	Gender	Settlement_Date	Settlement_Amount	Healthcare_Provider	Provider_Location	Treatment_Type	Treatment_Start_Date	Treatment_End_Date	Cost_of_Treatm
1	John Doe	42	Male	2022-05-14	20000.00	MediCare Health	Location 5	Surgery	2022-05-20	2022-06-15	15000.00
3	Michael Brown	55	Male	2020-11-05	32000.00	City Hospital	Location 8	Counseling	2020-11-10	2020-12-10	18000.00
5	David Wilson	47	Male	2022-03-18	28000.00	Health Plus	Location 3	Rehabilitation	2022-03-20	2022-04-15	21000.00
6	Sarah Johnson	62	Female	2021-06-25	18000.00	Total Care	Location 9	Surgery	2021-07-01	2021-07-25	25000.00
9	James White	53	Male	2022-11-15	40000.00	City Hospital	Location 6	Medication	2022-11-20	2022-12-05	15000.00
10	Laura Thompson	45	Female	2021-01-22	27000.00	Family Care Center	Location 3	Surgery	2021-01-28	2021-02-20	20000.00
11	Paul Harris	60	Male	2023-03-12	35000.00	Health Plus	Location 2	Rehabilitation	2023-03-15	2023-04-10	25000.00
14	Emma Wright	25	Female	2022-12-01	19000.00	Family Care Center	Location 8	Medication	2022-12-05	2022-12-15	7000.00
16	Ava Adams	29	Female	2021-10-10	25000.00	MediCare Health	Location 9	Surgery	2021-10-15	2021-11-05	20000.00
19	Lucas Young	50	Male	2023-09-05	26000.00	Health Plus	Location 7	Counseling	2023-09-08	2023-09-25	18000.00
20	Sophia Hill	43	Female	2021-12-20	17000.00	Family Care Center	Location 10	Rehabilitation	2021-12-22	2022-01-15	15000.00

Identify patients treated within a specific date range:

```
6   SELECT
7       *
8   FROM
9       HealthcareData
0   WHERE
1       Treatment_Start_Date BETWEEN '2022-01-01' AND '2022-12-31';
2
```

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

Patient_ID	Patient_Name	Age	Gender	Settlement_Date	Settlement_Amount	Healthcare_Provider	Provider_Location	Treatment_Type	Treatment_Start_Date	Treatment_End_Date	Cost_of_Treatment	Insurance_Cove
1	John Doe	42	Male	2022-05-14	20000.00	MediCare Health	Location 5	Surgery	2022-05-20	2022-06-15	15000.00	10000.00
5	David Wilson	47	Male	2022-03-18	28000.00	Health Plus	Location 3	Rehabilitation	2022-03-20	2022-04-15	21000.00	18000.00
9	James White	53	Male	2022-11-15	40000.00	City Hospital	Location 6	Medication	2022-11-20	2022-12-05	15000.00	12000.00
14	Emma Wright	25	Female	2022-12-01	19000.00	Family Care Center	Location 8	Medication	2022-12-05	2022-12-15	7000.00	5000.00
18	Mia Lewis	33	Female	2022-02-18	14000.00	City Hospital	Location 3	Medication	2022-02-20	2022-03-05	6000.00	4000.00
21	Daniel Moore	54	Male	2022-08-18	29000.00	MediCare Health	Location 3	Surgery	2022-08-20	2022-09-10	22000.00	17000.00
25	Oliver Stewart	37	Male	2022-04-22	19000.00	Health Plus	Location 4	Medication	2022-04-25	2022-05-10	8000.00	6000.00
29	Zoe Campbell	56	Female	2022-10-22	34000.00	Family Care Center	Location 10	Surgery	2022-10-25	2022-11-20	25000.00	20000.00
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

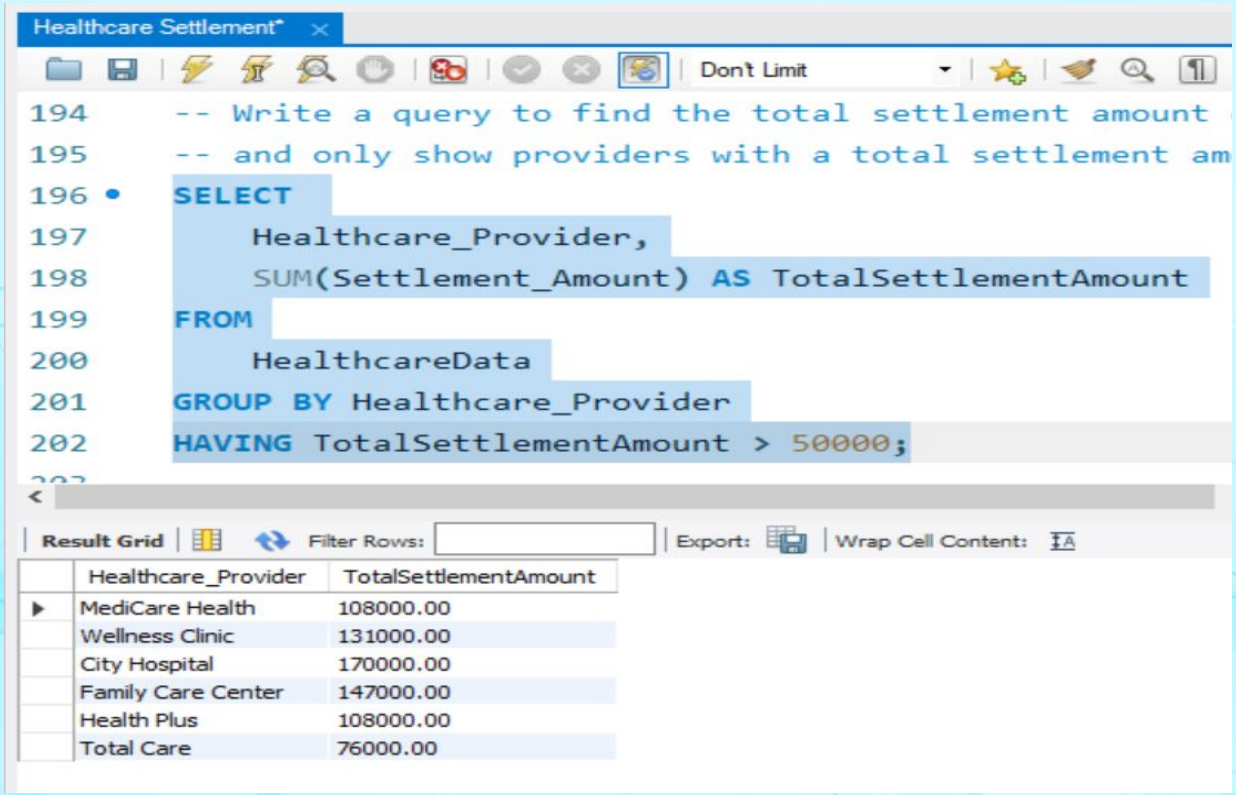
Find healthcare providers who performed more than one type of treatment:

```
185    SELECT
186        Healthcare_Provider,
187        COUNT(DISTINCT Treatment_Type) AS NumberOfTreatments
188    FROM
189        HealthcareData
190    GROUP BY Healthcare_Provider
191    HAVING NumberOfTreatments > 1;
192
```

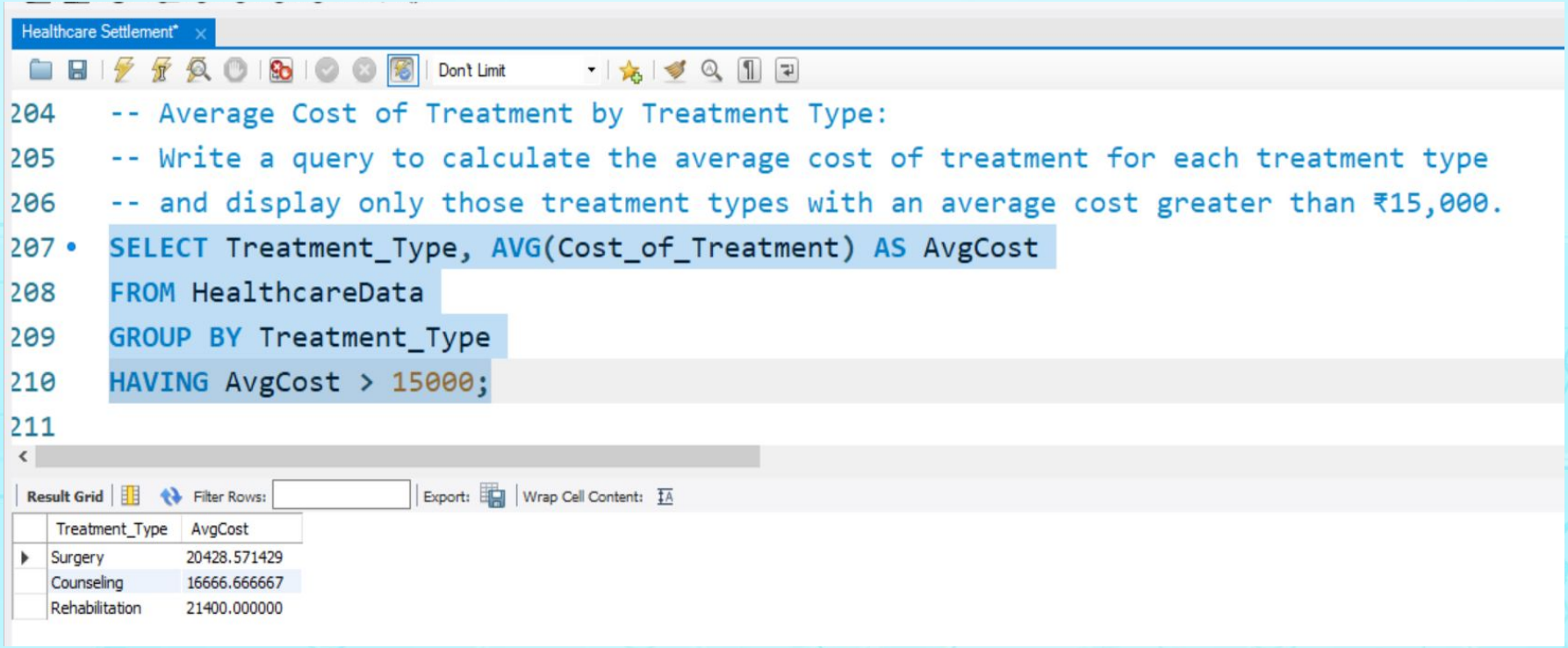
Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Healthcare_Provider	NumberOfTreatments
City Hospital	4
Family Care Center	4
Health Plus	3
MediCare Health	2
Total Care	3
Wellness Clinic	3

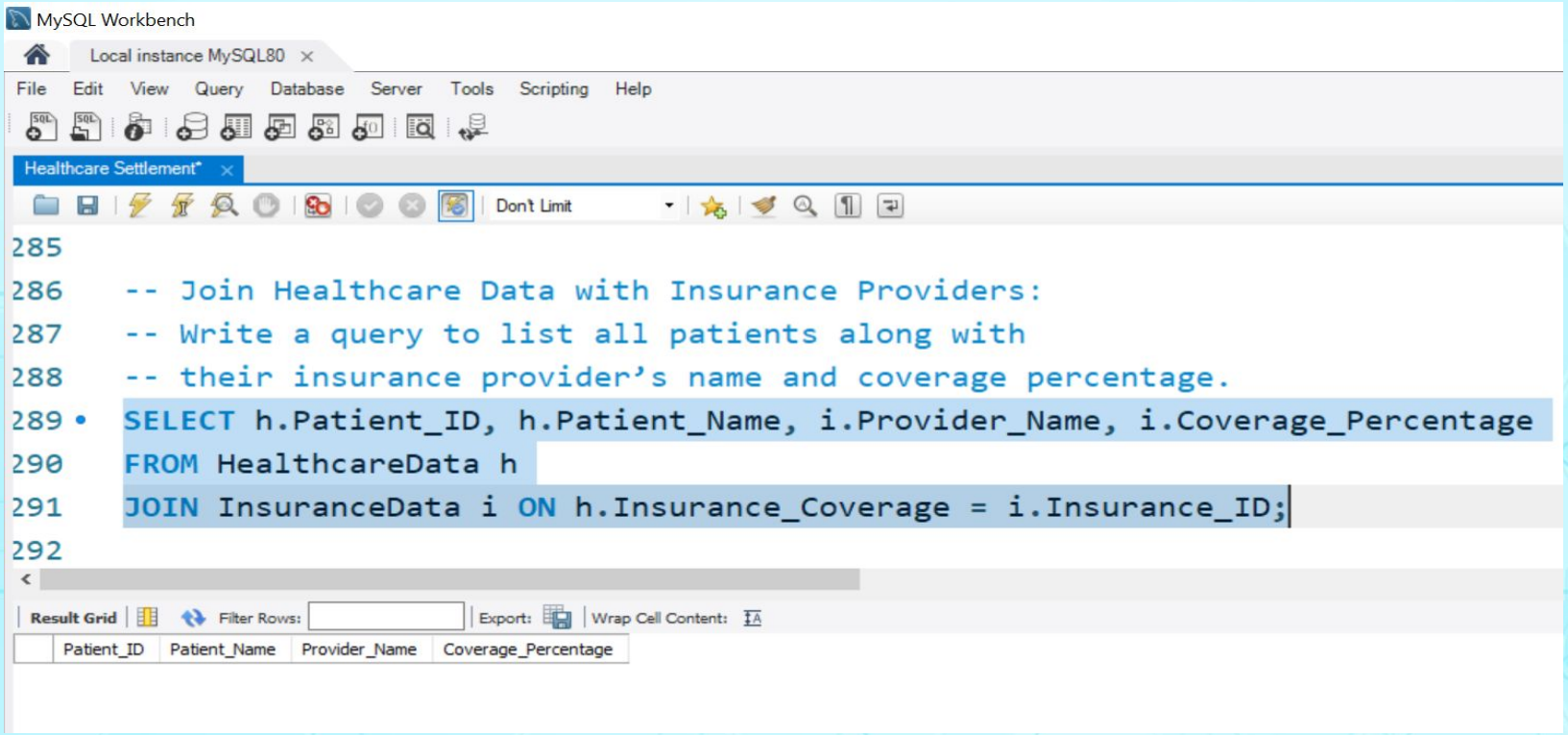
Total Settlement Amount by Healthcare Provider:



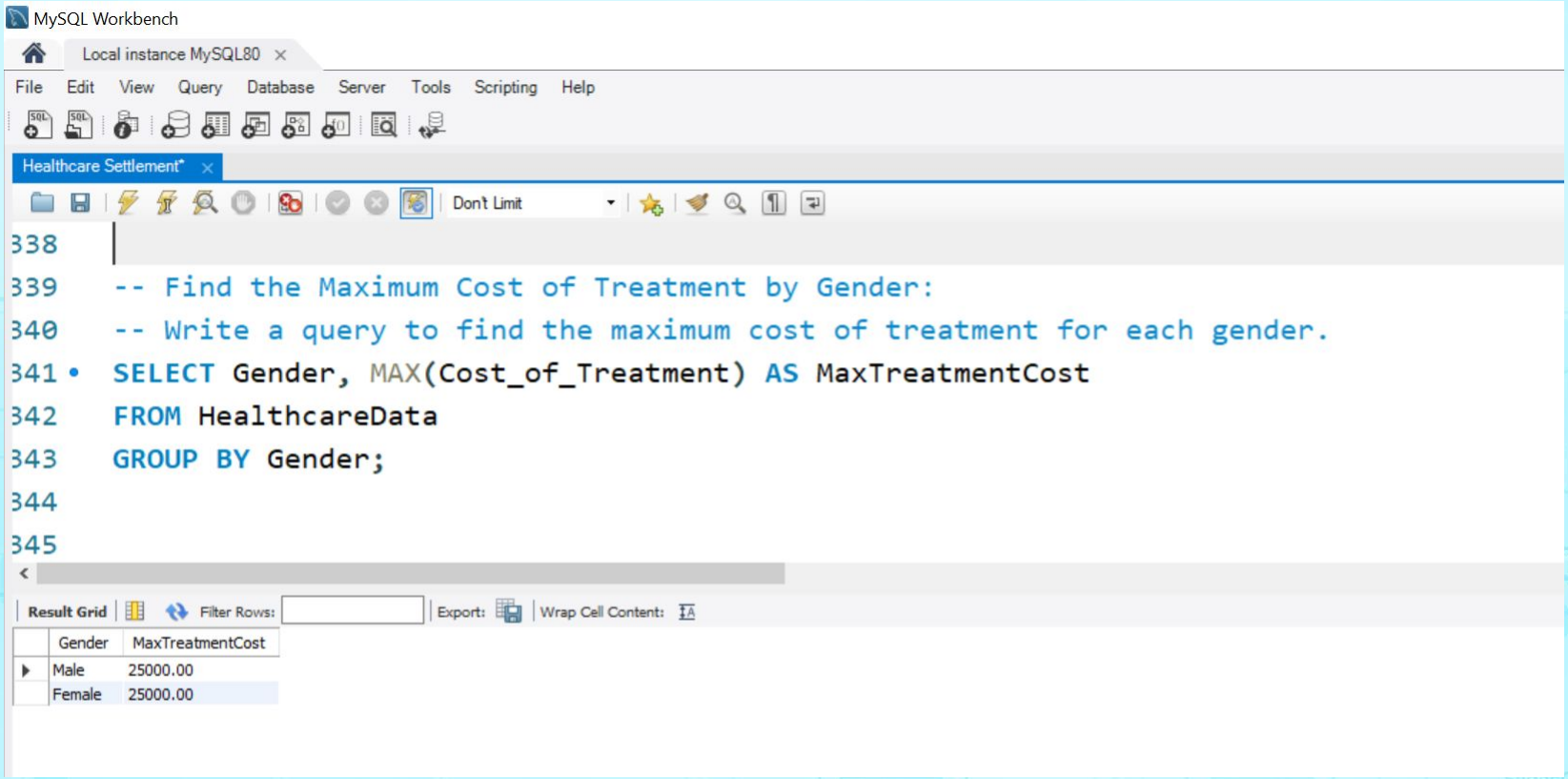
Average Cost of Treatment by Treatment Type:



Join Healthcare Data with Insurance Providers:



Find the Maximum Cost of Treatment by Gender:



Extract Year from Settlement Date:

```
9    -- Extract Year from Settlement Date:
0    -- Write a query to extract the year from the settlement date for each patient.
1 •  SELECT Patient_ID, Patient_Name, YEAR(Settlement_Date) AS SettlementYear
2    FROM HealthcareData;
3
```

esult Grid | Filter Rows: | Export: | Wrap Cell Content:

Patient_ID	Patient_Name	SettlementYear
1	John Doe	2022
2	Jane Smith	2021
3	Michael Brown	2020
4	Emily Davis	2023
5	David Wilson	2022
6	Sarah Johnson	2021
7	Chris Lee	2020
8	Anna Martin	2023
9	James White	2022
10	Laura Thompson	2021
11	Paul Harris	2023
12	Olivia Green	2021
13	Benjamin Scott	2020
14	Emma Wright	2022
15	William King	2023

sult 43


Thank You.
LANATION OF BENEFITS
THIS IS NOT A BILL
Date: 06/20/13
Policy:
Date of Service
From-Through
Billed
Charges
Not Covered
Amount
Copay
PHARMACY
OPER ROOM
CLINIC VISIT
PHARMACY CHG
HOSPITAL
5/20/13- 5/20/13
4.32
524.00
93.00
20.76
4.32
303.71
4.12
20.76