

1-

```
1  --patient who has heart disease
2  select patient_id from dim_diagnosis d join fact_patient_diagnosis f
3  on d.diagnosis_sk = f.diagnosis_sk join dim_patient p
4  on p.patient_sk = f.patient_sk
5  where heart_disease = 1
```

Results Chart

#	PATIENT_ID
1	9046
2	31112
3	53882
4	12095
5	8213
6	5317
7	56112
8	25226
9	64778
10	54827
11	54401
12	712
13	61960

2-

```
8  -- number of heart_disease
9  select count(heart_disease) as number_of_heart_disease from dim_diagnosis
10 where heart_disease = 1
```

Results Chart

#	NUMBER_OF_HEART_DISEASE
1	276

3-

```
12  -- patient who smokes
13  select patient_id from dim_diagnosis d join fact_patient_diagnosis f
14  on d.diagnosis_sk = f.diagnosis_sk join dim_patient p
15  on p.patient_sk = f.patient_sk
16  where smoking_status = 'smokes'
17  group by patient_id
```

Results Chart

#	PATIENT_ID
1	60182
2	12095
3	12175
4	56112
5	34120
6	70630
7	54827
8	43717
9	61960
10	36338
11	32399
12	3253

4-

```

19  --NUMBER OF SMOKERS
20  select count(heart_disease) as number_of_heart_disease from dim_diagnosis
21  where smoking_status = 'smokes'

```

	# NUMBER_OF_HEART_DISEASE
1	789

5-

```

23  -- the pients who have the least glucose level
24  select top 5 patient_id , f.avg_glucose_level from dim_patient p join fact_patient_diagnosis f
25  on f.patient_sk = p.patient_sk
26  order by f.avg_glucose_level asc

```

	# PATIENT_ID	# AVG_GLUCOSE_LEVEL
1	60562	55.12
2	37404	55.22
3	43028	55.23
4	61300	55.25
5	72547	55.26

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```

28  --top bmi
29  select top 5 patient_id , f.bmi from dim_patient p join fact_patient_diagnosis f
30  on f.patient_sk = p.patient_sk
31  order by f.bmi desc

```

	# PATIENT_ID	# BMI
1	56420	97.6
2	51856	92
3	41097	78
4	545	71.9
5	37759	66.8

7-

```

33  --patient who has hypertension
34  select patient_id from dim_diagnosis d join fact_patient_diagnosis f
35  on d.diagnosis_sk = f.diagnosis_sk join dim_patient p
36  on p.patient_sk = f.patient_sk
37  where hypertension = 1
38  group by patient_id

```

	# PATIENT_ID
1	1665
2	53882
3	12109
4	34120
5	13861
6	43717
7	39373
8	712
9	24977
10	7937
11	19824
12	15102

8-

```

40  ---patient who has stroke
41  select patient_id from dim_diagnosis d join fact_patient_diagnosis f
42  on d.diagnosis_sk = f.diagnosis_sk join dim_patient p
43  on p.patient_sk = f.patient_sk
44  where stroke = 1
45  group by patient_id

```

Results Chart

	# PATIENT_ID	
1	9046	
2	51676	
3	31112	
4	60182	
5	56669	
6	53882	
7	27419	
8	60491	
9	12095	
10	12175	
11	8213	
12	56112	

9-

```

47  -- date of diagnosis for each patient
48  select patient_id , diagnosis_date from dim_diagnosis d join fact_patient_diagnosis f
49  on d.diagnosis_sk = f.diagnosis_sk join dim_patient p
50  on p.patient_sk = f.patient_sk
51

```

Results Chart

	# PATIENT_ID	DIAGNOSIS_DATE
1	9046	2024-10-07
2	51676	2022-01-19
3	31112	2022-09-15
4	60182	2022-02-05
5	1665	2022-06-29
6	56669	2023-05-18
7	53882	2022-10-04
8	10434	2024-12-02
9	27419	2024-10-07
10	60491	2023-12-28
11	12109	2023-11-06
12	12095	2023-02-15

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52 -- check residence type  
53 select patient\_id , residence\_type from dim\_patient  
54

ResultsChart

	PATIENT_ID	RESIDENCE_TYPE
1	9046	Urban
2	51676	Rural
3	31112	Rural
4	60182	Urban
5	1665	Rural
6	56669	Urban
7	53882	Rural
8	10434	Urban
9	27419	Rural
10	60491	Urban
11	12109	Rural
12	12095	Rural