

```
select column_name, data_type
from `apollo_hospital.INFORMATION_SCHEMA.COLUMNS`
```

Query results SAVE RESULTS OPEN IN Expand

| JOB INFORMATION | RESULTS | CHART | JSON | EXECUTION DETAILS | EXECUTION GRAPH |
|-----------------|--------------------|-----------|------|-------------------|-----------------|
| Row | column_name | data_type | | | |
| 1 | Admission_ID | STRING | | | |
| 2 | Name | STRING | | | |
| 3 | Age | INT64 | | | |
| 4 | Gender | STRING | | | |
| 5 | BMI | FLOAT64 | | | |
| 6 | Ethnicity | STRING | | | |
| 7 | Height | INT64 | | | |
| 8 | Weight | INT64 | | | |
| 9 | Blood_Type | STRING | | | |
| 10 | Medical_Condition | STRING | | | |
| 11 | Admission_Date | DATE | | | |
| 12 | Doctor | STRING | | | |
| 13 | Hospital | STRING | | | |
| 14 | Insurance_Provider | STRING | | | |
| 15 | Billing_Amount | FLOAT64 | | | |
| 16 | Room_Number | INT64 | | | |
| 17 | Admission_Type | STRING | | | |

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1 Identify the top 3 preferred insurance providers among patients.

```
select Insurance_Provider, count(*) total_nbs
from `apollo_hospital.hospital`
group by Insurance_Provider
order by 2 desc
limit 3
```

Query results SAVE RESULTS OPEN IN

| JOB INFORMATION | RESULTS | CHART | JSON | EXECUTION DETAILS | EXECUTION GRAPH |
|-----------------|--------------------|-----------|------|-------------------|-----------------|
| Row | Insurance_Provider | total_nbs | | | |
| 1 | Cigna | 8122 | | | |
| 2 | Medicare | 8118 | | | |
| 3 | Blue Cross | 8078 | | | |

2 What are the most common medical conditions among patients aged 60 and above?

```
select Medical_Condition, count(*) total_nbs
from `apollo_hospital.hospital`
where Age >=60
group by Medical_Condition
order by 1 desc
```

Query results

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JOB INFORMATION

RESULTS

CHART

JSON

EXECUTION DETAILS

EXECUTION GRAPH

| Row | Medical_Condition | total_nbs |
|-----|-------------------|-----------|
| 1 | Obesity | 2505 |
| 2 | Hypertension | 2561 |
| 3 | Diabetes | 2620 |
| 4 | Cancer | 2558 |
| 5 | Asthma | 2570 |
| 6 | Arthritis | 2612 |

3. Determine the count of universal blood donors (O- patients) and recipients (AB+ patients) within the patient population.

```
select case when Blood_Type = 'AB+' then 'Universal Blood Receipts'
           else 'Universal Blood Donors' end as Blood_Type,
       count(*) total_counts,
from `apollo_hospital.hospital`
where Blood_Type in ('O-' , 'AB+')
group by Blood_Type
```

Query results

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JOB INFORMATION

RESULTS

CHART

JSON

EXECUTION DETAILS

EXECUTION GRAPH

| Row | Blood_Type | total_counts | |
|-----|--------------------------|--------------|--|
| 1 | Universal Blood Receipts | 5101 | |
| 2 | Universal Blood Donors | 5018 | |

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4. How many patients fall into different BMI categories (underweight, normal weight, overweight, obese)?

```
with cte as
(select case WHEN BMI < 20 THEN 'Underweight'
           WHEN BMI >= 20 AND BMI < 25 THEN 'Normal weight'
           WHEN BMI >= 25 AND BMI < 30 THEN 'Overweight'
           ELSE 'Obese'
END AS Weight_Status,

       count(*) total
```

```
from `apollo_hospital.hospital`
group by BMI)
```

```
select Weight_Status, count(*) total_counts
from cte
group by Weight_Status
```

| Query results | | | | SAVE RESULTS | OPEN IN | |
|-----------------|---------------|--------------|-------|--------------|-------------------|-----------------|
| JOB INFORMATION | | RESULTS | CHART | JSON | EXECUTION DETAILS | EXECUTION GRAPH |
| Row | Weight_Status | total_counts | | | | |
| 1 | Underweight | 488 | | | | |
| 2 | Normal weight | 500 | | | | |
| 3 | Overweight | 500 | | | | |
| 4 | Obese | 2487 | | | | |

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#6. Which ethnic group exhibits the highest susceptibility to cancer?

```
select Ethnicity, count(*) total_counts
from `apollo_hospital.hospital`

where Medical_Condition = 'Cancer'
group by Ethnicity
order by total_counts desc
```

| Query results | | | | SAVE RESULTS | OPEN IN | |
|-----------------|------------------|--------------|-------|--------------|-------------------|-----------------|
| JOB INFORMATION | | RESULTS | CHART | JSON | EXECUTION DETAILS | EXECUTION GRAPH |
| Row | Ethnicity | total_counts | | | | |
| 1 | Caucasian | 5333 | | | | |
| 2 | African American | 777 | | | | |
| 3 | Hispanic | 391 | | | | |
| 4 | Asian | 113 | | | | |
| 5 | Native American | 74 | | | | |

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#7. Identify the most commonly prescribed medications for each medical condition.

```
select Medical_Condition, Medication, count(*) prescribed_medication
from `apollo_hospital.hospital`
group by Medical_Condition, 2
order by 3 desc
```

Query results

SAVE RESULTS

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| JOB INFORMATION | | RESULTS | CHART | JSON | EXECUTION DETAILS | EXECUTION GRAPH |
|-----------------|-------------------|------------|-----------------------|------|-------------------|-----------------|
| Row | Medical_Condition | Medication | prescribed_medication | | | |
| 1 | Cancer | Lipitor | 1417 | | | |
| 2 | Diabetes | Lipitor | 1401 | | | |
| 3 | Diabetes | Ibuprofen | 1388 | | | |
| 4 | Arthritis | Aspirin | 1382 | | | |
| 5 | Arthritis | Penicillin | 1378 | | | |

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#8. Identify doctors who have treated more than 10 patients.

```
select Doctor, count(distinct Name) total_patients
from `apollo_hospital.hospital`
group by Doctor
having count(distinct Name)>10
order by 2 desc
```

Query results

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JOB INFORMATIONRESULTSCHARTJSONEXECUTION DETAILSEXECUTION GRAPH

| Row | Doctor | total_patients | |
|-----|------------------|----------------|--|
| 1 | John Smith | 18 | |
| 2 | Michael Williams | 17 | |
| 3 | Michael Smith | 15 | |
| 4 | David Smith | 15 | |
| 5 | Elizabeth Smith | 14 | |
| 6 | Matthew Smith | 14 | |
| 7 | Michael Brown | 13 | |
| 8 | Michael Johnson | 13 | |
| 9 | Jennifer Johnson | 13 | |
| 10 | Robert Smith | 13 | |

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#9. List medical conditions that have an average hospitalization period greater than 15 days and where the maximum billing amount exceeds \$25,000.

```
select Medical_Condition, avg(Days_Hospitalised) avg_hospitalised,
max(Billing_Amount) max_billing_amount
from `apollo_hospital.hospital`
group by Medical_Condition
having avg(Days_Hospitalised) > 15 and max(Billing_Amount) > 25000
order by 2,3 desc
```

| JOB INFORMATION | | RESULTS | CHART | JSON | EXECUTION DETAILS | EXECUTION GRAPH |
|-----------------|-------------------|-------------------|--------------------|------|-------------------|-----------------|
| Row | Medical_Condition | avg_hospitalised | max_billing_amount | | | |
| 1 | Diabetes | 15.38596233078... | 52211.85 | | | |
| 2 | Obesity | 15.49073097211... | 51501.65 | | | |
| 3 | Hypertension | 15.51227912548... | 52764.28 | | | |
| 4 | Cancer | 15.51839114832... | 52373.03 | | | |
| 5 | Arthritis | 15.58334555050... | 52170.04 | | | |
| 6 | Asthma | 15.65966450052... | 52181.84 | | | |

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#10. Find hospitals where the average billing amount exceeds the overall average billing amount by at least 50%.

```
select Hospital, avg(Billing_Amount) avg_billing_amount
from `apollo_hospital.hospital`
group by Hospital
having avg(Billing_Amount) > 0.5 * avg(Billing_Amount)
order by 2 desc
```

| JOB INFORMATION | | RESULTS | CHART | JSON | EXECUTION DETAILS | EXECUTION GRAPH |
|-----------------|------------------|--------------------|-------|------|-------------------|-----------------|
| Row | Hospital | avg_billing_amount | | | | |
| 1 | Hernandez-Morton | 52373.03 | | | | |
| 2 | Walker-Garcia | 52170.04 | | | | |
| 3 | Ruiz-Anthony | 52154.24 | | | | |
| 4 | George-Gonzalez | 52102.24 | | | | |

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#11. Find hospitals where the average billing amount exceeds the overall average billing amount by at least 50%.

```
select Hospital, avg(Billing_Amount) avg_billing_amount
from `apollo_hospital.hospital`
group by Hospital
```

```
having avg(Billing_Amount) > (select 1.5 * avg(Billing_Amount) from
`apollo_hospital.hospital`)
order by 2 desc
```

| Query results | | | | SAVE RESULTS | OPEN IN | |
|-----------------|--------------------------------|--------------------|-------|--------------|-------------------|-----------------|
| JOB INFORMATION | | RESULTS | CHART | JSON | EXECUTION DETAILS | EXECUTION GRAPH |
| Row | Hospital | avg_billing_amount | | | | |
| 1 | Hernandez-Morton | 52373.03 | | | | |
| 2 | Walker-Garcia | 52170.04 | | | | |
| 3 | Ruiz-Anthony | 52154.24 | | | | |
| 4 | George-Gonzalez | 52102.24 | | | | |
| 5 | Rocha-Carter | 52092.67 | | | | |
| 6 | and Small Stephens Harrington, | 51975.97 | | | | |
| 7 | Clark-Espinoza | 51848.2 | | | | |

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#12. Calculate the total billing amount for emergency and elective admissions for each medical condition. Show only those medical conditions where emergency billing is less than elective billing.

```
select Medical_Condition, Admission_Type, count(*) total_Counts
from `apollo_hospital.hospital`
where Admission_Type in ('Emergency' , 'Elective')
group by Medical_Condition, Admission_Type
having sum(case when Admission_Type = 'Emergency' then Billing_Amount else 0 end) <

sum(case when Admission_Type = 'Elective' then Billing_Amount else 0 end)
```

| Query results | | | | SAVE RESULTS | OPEN IN | |
|-----------------|-------------------|----------------|--------------|--------------|-------------------|-----------------|
| JOB INFORMATION | | RESULTS | CHART | JSON | EXECUTION DETAILS | EXECUTION GRAPH |
| Row | Medical_Condition | Admission_Type | total_Counts | | | |
| 1 | Obesity | Elective | 2168 | | | |
| 2 | Arthritis | Elective | 2310 | | | |
| 3 | Asthma | Elective | 2238 | | | |
| 4 | Hypertension | Elective | 2321 | | | |
| 5 | Cancer | Elective | 2276 | | | |
| 6 | Diabetes | Elective | 2250 | | | |

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