

Solution of given problems in assignment

1. Total Number of Patients

```
mysql> select sum(patients_Count) as total_patients from hospital;
```

```
+-----+
| total_patients |
+-----+
|      9347      |
+-----+
```

2. Average Number of Doctors per Hospital

```
mysql> select hospital_name,avg(Doctors_Count) from hospital group by hospital_name;
```

```
+-----+-----+
| hospital_name | avg(Doctors_Count) |
+-----+-----+
| Wellness Clinic | 34.0000 |
| Fortis Care | 24.5455 |
| Heritage Hospital | 24.6667 |
| City Hospital | 24.7000 |
| Global Medicare | 28.7273 |
| Apollo Health | 23.3636 |
| Green Valley Hospital | 28.8750 |
| Healing Touch | 25.6429 |
| Sunrise Medical | 28.6250 |
| Metro Hospital | 27.4545 |
+-----+-----+
```

3. Top 3 Departments with the Highest Number of Patients

```
mysql> select Department, sum(Patients_Count) as total_patients from hospital group by department order by total_Patients desc limit 3;
```

```
+-----+-----+
| Department | total_patients |
+-----+-----+
| Urology | 1766 |
| Neurology | 1229 |
| ENT | 1064 |
+-----+-----+
```

4. Hospital with the Maximum Medical Expenses

```
mysql> select hospital_name,max( Medical_Expenses) from hospital group by hospital_name order by max( Medical_Expenses) desc limit 1;
```

```
+-----+-----+
| hospital_name | max( Medical_Expenses) |
+-----+-----+
| Healing Touch | 49955.4 |
+-----+-----+
```

5. Daily Average Medical Expenses

```
mysql> select hospital_name,round(sum( Medical_Expenses)/sum(Discharge_Date-Admission_Date) + 1,2) as average from hospital group by hospital_name order by average desc;
```

```
+-----+-----+
| hospital_name | average |
+-----+-----+
| Apollo Health | 3188.76 |
| Healing Touch | 1468.41 |
| Green Valley Hospital | 1229.7 |
| Sunrise Medical | 1202.29 |
+-----+-----+
```

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| City Hospital | 957.01 |

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Heritage Hospital	649.95
Fortis Care	38.75
Global Medicare	37.51
Wellness Clinic	20.35
Metro Hospital	18.58

+-----+

6. Longest Hospital Stay

mysql> select department,datediff(Discharge_Date,Admission_Date)+ 1 as
longest_day_stay from hospital order by longest_day_stay desc limit 1;

+-----+

department	longest_day_stay
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+-----+

ENT	16
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+-----+

7. Total Patients Treated Per City

mysql> select Location,count(Patients_Count) as total_patients from hospital group by
location order by total_patients desc;

+-----+

Location	total_patients
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+-----+

Ahmedabad	17
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Jaipur	16
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Hyderabad	11
-----------	----

Lucknow	11
---------	----

Bangalore	11
-----------	----

Pune	9
------	---

Chennai	8
---------	---

Kolkata	6
---------	---

Delhi	6
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Mumbai	5
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+-----+

8. Average Length of Stay Per Department

mysql> select department,AVG(DATEDIFF(Discharge_Date, Admission_Date) + 1) AS
average_stay from hospital group by department order by average_stay;

+-----+

department	average_stay
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+-----+

Dermatology	6.6000
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Cardiology	7.8571
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Orthopedics	8.1429
-------------	--------

General Medicine	8.4286
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Gynecology	8.6667
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ENT	9.0833
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Oncology	9.1111
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Urology	9.7222
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Pediatrics	10.1111
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Neurology	10.2500
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+-----+

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9. Identify the Department with the Lowest Number of Patients

```
mysql> select department,min(Patients_Count) as minimum_patients from hospital group  
by department order by minimum_patients asc limit 1;
```

```
+-----+-----+  
| department | minimum_patients |  
+-----+-----+  
| Gynecology |          20 |  
+-----+-----+
```

10. Monthly Medical Expenses Report

```
mysql> select DATE_FORMAT(Discharge_Date, '%m') AS  
Month,round(sum( Medical_Expenses),2) as total_expenses from hospital group by month  
order by month asc;
```

```
+-----+-----+  
| Month | total_expenses |  
+-----+-----+  
| 01 | 295397.24 |  
| 02 | 317550.06 |  
| 03 | 183909.86 |  
| 04 | 141632.34 |  
| 05 | 229987.55 |  
| 06 | 71899.48 |  
| 07 | 223866.77 |  
| 08 | 262726.79 |  
| 09 | 259287.02 |  
| 10 | 235363.78 |  
| 11 | 318388.85 |  
| 12 | 177301.32 |
```