Hospital Data Assignment Solve

CREATE DATABASE project;

USE project;

SELECT \* FROM hospital\_data;

ALTER TABLE hospital\_data

RENAME COLUMN `﻿Hospital Name` TO Hospital\_Name;

/\* 1. Total Number of Patients \*/

SELECT SUM(`Patients Count`) AS TOTAL\_PATIENTS

FROM hospital\_data;

/\* 2. Average Number of Doctors per Hospital \*/

SELECT Hospital\_Name, `Location`, ROUND(AVG(`Doctors Count`), 2) AS AVG\_OF\_DOCTORS\_COUNT

FROM hospital\_data

GROUP BY Hospital\_Name, `Location`;

/\* 3. Top 3 Departments with the Highest Number of Patients \*/

SELECT `Department`, SUM(`Patients Count`) AS NO\_OF\_PATIENTS

FROM hospital\_data

GROUP BY `Department`

ORDER BY NO\_OF\_PATIENTS DESC

LIMIT 3;

/\* 4. Hospital with the Maximum Medical Expenses \*/

SELECT \*

FROM hospital\_data

ORDER BY `Medical Expenses` DESC

LIMIT 1;

/\* 5. Daily Average Medical Expenses \*/

SELECT

`Hospital\_Name`,

`Location`,

SUM(`Medical Expenses`) / SUM(IFNULL(DATEDIFF(`Discharge Date`, `Admission Date`), 1)) AS Average\_Medical\_Expenses\_Per\_Day

FROM

hospital\_data

GROUP BY

`Hospital\_Name`,

`Location`;

/\* 6. Longest Hospital Stay \*/

SELECT \*,

DATEDIFF(STR\_TO\_DATE(`Discharge Date`, '%d-%m-%Y'), STR\_TO\_DATE(`Admission Date`, '%d-%m-%Y')) AS `Stay Duration`

FROM hospital\_data

ORDER BY `Stay Duration` DESC

LIMIT 1;

/\* 7. Total Patients Treated Per City \*/

SELECT `Location`, SUM(`Patients Count`) AS NO\_OF\_PATIENTS

FROM hospital\_data

GROUP BY `Location`;

/\* 8. Average Length of Stay Per Department \*/

SELECT `Department`,

ROUND(AVG(DATEDIFF(STR\_TO\_DATE(`Discharge Date`, '%d-%m-%Y'),

STR\_TO\_DATE(`Admission Date`, '%d-%m-%Y'))), 2) AS `Avg Stay Duration`

FROM hospital\_data

GROUP BY `Department`

ORDER BY `Avg Stay Duration` DESC;

/\* 9. Identify the Department with the Lowest Number of Patients \*/

SELECT `Department`, SUM(`Patients Count`) AS NO\_OF\_PATIENTS

FROM hospital\_data

GROUP BY `Department`

ORDER BY NO\_OF\_PATIENTS ASC

LIMIT 1;

/\* 10. Monthly Medical Expenses Report \*/

SELECT MONTHNAME(STR\_TO\_DATE(`Admission Date`, '%d-%m-%Y')) AS `Month`,

SUM(`Medical Expenses`) AS `Total Medical Expenses (₹)`

FROM hospital\_data

GROUP BY `Month`

ORDER BY FIELD(`Month`, 'January', 'February', 'March', 'April', 'May', 'June',

'July', 'August', 'September', 'October', 'November', 'December');