30 Days SQL Micro Course Answer PDF

1. **Total Number of Patients**

   Find the total number of patients across all hospitals.

   Answer :-

   SELECT SUM(PATIENTS_COUNT) AS TOTAL_PATIENTS

   FROM H_DATA;

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

   Retrieve the average count of doctors available in each hospital.

   Answer :-

   SELECT AVG(DOCTORS_COUNT) AS AVG_COUNT_DOC

   FROM H_DATA;

3. **Top 3 Departments with the Highest Number of Patients** ○

   Find the top 3 hospital departments having the highest number of patients.

   Answer :-

   SELECT DEPARTMENT, PATIENTS_COUNT

   FROM H_DATA

   ORDER BY PATIENTS_COUNT DESC

   LIMIT 3;

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

   Identify the hospital that recorded the highest medical expenses.

   Answer :-

   SELECT HOSPITAL_NAME, MEDICAL_EXPENSES

   FROM H_DATA

   ORDER BY MEDICAL_EXPENSES DESC

   LIMIT 1;

5. **Daily Average Medical Expenses**

Calculate the average medical expenses per day for each hospital.

Answer :-

SELECT HOSPITAL_NAME, AVG(MEDICAL_EXPENSES)

FROM H_DATA

GROUP BY HOSPITAL_NAME;

6. **Longest Hospital Stay**

Find patient with the longest stay by calculating the diff. btw Discharge and Admission Date.

Answer :-

SELECT PATIENTS_COUNT, ADMISSION_DATE,

DISCHARGE_DATE, DISCHARGE_DATE - ADMISSION_DATE AS DIFFERENCE

FROM H_DATA

ORDER BY DIFFERENCE DESC

LIMIT 1;

7. **Total Patients Treated Per City**

Count the total number of patients treated in each city.

Answer :-

SELECT LOCATION, SUM(PATIENTS_COUNT)

FROM H_DATA

GROUP BY LOCATION;

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

Calculate the average number of days patients spend in each department.

Answer :-

SELECT DEPARTMENT,

 AVG(DISCHARGE_DATE - ADMISSION_DATE) AS AVG_DAY_SPEND

FROM H_DATA

GROUP BY DEPARTMENT;

9. Identify the Department with the Lowest Number of Patients

Find the department with the least number of patients.

Answer :-

SELECT DEPARTMENT, PATIENTS_COUNT

FROM H_DATA

ORDER BY PATIENTS_COUNT ASC

LIMIT 1;

10. Monthly Medical Expenses Report

Group the data by month and calculate the total medical expenses for each month.

Answer :-

SELECT

 TO_CHAR(DATE_TRUNC('month', ADMISSION_DATE), 'YYYY-MM-DD') AS MONTH_DATE,

    SUM(MEDICAL_EXPENSES) AS TOTAL_EXPENSES

FROM H_DATA

GROUP BY DATE_TRUNC('month', ADMISSION_DATE)

ORDER BY MONTH_DATE;