• 30 DAYS SQL MICRO COURSE ANSWER PDF

1. Total Number of Patients

o Write an SQL query to find the total number of patients across all hospitals.

ANSWERS :

SELECT SUM (patients\_count)

AS Total\_patients

FROM sql\_project;

1. Average Number of Doctors per Hospital

o Retrieve the average count of doctors available in each hospital.

ANSWERS :

SELECT hospital, AVG (doctors\_count)

AS avg\_doctors

FROM sql\_project

GROUP BY hospital ;

1. Top 3 Departments with the Highest Number of Patients

o Find the top 3 hospital departments that have the highest number of patients.

ANSWERS :

SELECT hospital, department, SUM(patients\_count)

AS highest\_number\_of\_patient

FROM sql\_project

GROUP BY hospital, department

ORDER BY highest\_number\_of\_patient DESC LIMIT 3;

1. Hospital with the Maximum Medical Expenses

o Identify the hospital that recorded the highest medical expenses.

ANSWERS :

SELECT hospital, SUM (medical\_expenses)

AS Highest\_medical\_expenses

FROM

sql\_project

GROUP BY

hospital

ORDER BY

Highest\_medical\_expenses DESC;

1. Daily Average Medical Expenses

o Calculate the average medical expenses per day for each hospital.

ANSWERS :

SELECT hospital,

AVG (medical\_expenses / NULLIF ( discharge\_date - admission\_date,0))

AS daily\_avg\_expenses

FROM

sql\_project

GROUP BY

hospital

ORDER BY

daily\_avg\_expenses DESC ;

1. Longest Hospital Stay

o Find the patient with the longest stay by calculating the difference between Discharge Date and Admission Date.

ANSWERS :

SELECT patients\_count,

hospital,

department,

(discharge\_date - admission\_date ) AS lenth\_of\_stay

FROM

sql\_project

ORDER BY

lenth\_of\_stay DESC LIMIT 1 ;

1. Total Patients Treated Per City

o Count the total number of patients treated in each city.

ANSWERS :

SELECT location,

SUM (patients\_count) AS total\_patients\_treated

FROM

sql\_project

GROUP BY

location

ORDER BY

total\_patients\_treated DESC ;

1. Average Length of Stay Per Department

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

ANSWERS :

SELECT

department,

AVG(discharge\_date - admission\_date ) AS lenth\_of\_stay\_per\_dept

FROM

sql\_project

GROUP BY

department

ORDER BY

lenth\_of\_stay\_per\_dept DESC ;

1. Identify the Department with the Lowest Number of Patients

o Find the department with the least number of patients.

ANSWERS :

SELECT department, SUM(patients\_count) AS total\_patients

FROM

sql\_project

GROUP BY

department

ORDER BY

total\_patients ASC LIMIT 1 ;

1. Monthly Medical Expenses Report

ANSWERS :

SELECT

TO\_CHAR(admission\_date, 'YYYY-MON') AS ExpenseMonth,

SUM(medical\_expenses) AS TotalMedicalExpenses

FROM

sql\_project

GROUP BY

ExpenseMonth

ORDER BY

ExpenseMonth;