SQL Project Report

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--created the database with hospital name and patients table under it.
DROP TABLE IF EXISTS patients;
CREATE TABLE patients
(HospitalName VARCHAR(50) NOT NULL,
Location VARCHAR(50),
Department VARCHAR(50),
DoctorsCount INT,
PatientsCount INT,
Admission_Date DATE,
Discharge_Date DATE,
Medical_Expenses NUMERIC(10,2)
);
SELECT* FROM patients;
--importing data into table
--thorugh direct way
--1 write an sql to find the total number of patients across all hospitals.
SELECT SUM(patientscount) AS total_patients
FROM patients;
--2 avg no of doctors per hospital
SELECT AVG(doctorscount), hospitalname
FROM patients
GROUP BY hospitalname;
--3 top 3 hospital department with the highest number of patients
SELECT DISTINCT department, SUM(patientscount) AS total_patientcount
FROM patients
GROUP BY department
ORDER BY total_patientcount DESC
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--4 HOSPITAL with maximum medical expenses
SELECT DISTINCT hospitalname , SUM(medical_expenses) AS total_medical_expense
FROM patients
GROUP BY hospitalname
ORDER BY total_medical_expense DESC;
-- 5 calculate the average medical expenses per day for each hospital
SELECT AVG(medical_expenses) AS avg_medicl_expense , hospitalname
FROM patients
GROUP BY hospitalname;
--6 Longest hospital stay - find the patient with the longest stay by calculating the difference between
--discharge date and admission date
SELECT patientscount, hospitalname, (discharge_date - admission_date) AS hospital_stay
FROM patients
ORDER BY hospital_stay DESC LIMIT 1;
--7 COUNT the total number of patients treated in each city
SELECT SUM(patientscount), location
FROM patients
GROUP BY location;
--8 calculate the avg no of days patients spend in each department
SELECT department, AVG(discharge_date - admission_date) AS avg_stay
FROM patients
GROUP BY department;
--9 find the department with the least no of patients
SELECT department, SUM(patientscount) AS patient_count
FROM patients
GROUP BY department
ORDER BY patient_count ASC LIMIT 1;
--10 Monthly medical expense report - group the data by month and calculate the total medical expense for
each month
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LIMIT 3;

SELECT SUM(medical_expenses) , TO_CHAR(admission_date, 'yyyy-mm') AS month

FROM patients

GROUP BY TO_CHAR(admission_date, 'yyyy-mm')

ORDER BY month;