Classroom Problems 4 Sep

limit 1

#Q. Identify the top 3 preferred insurance providers among patients select Insurance_Provider, count(Admission_ID) as patient_count, count(Age) from 'hospital.hospital' group by Insurance_Provider order by patient_count desc limit 3 #Q. Determine the count of universal blood donors and recipients within the patient population. -- look for o- and AB+ select Blood_Type, count(admission_id) as patient_count from 'hospital.hospital' where Blood_Type in ('O-','AB+') group by Blood_Type #Q. How many patients fall into different BMI categories (underweight, normal weight, overweight, obese)? -- 18.5 , 18.5-24.9, 25-29.9, 29.9 onwards -- case-when, count(), group by select case when BMI <= 18.5 then 'underweight' when BMI > 18.5 and BMI <= 24.9 then 'normal weight' when BMI > 24.9 and BMI <= 29.9 then 'overweight' else 'obese' end as bmi_category, count(Admission_ID) from 'hospital.hospital' group by bmi_category #Q. Which ethnic group exhibits the highest susceptibility to cancer? select Ethnicity as ethnic_group, count(Admission_ID) as patient_count from 'hospital.hospital' where Medical_Condition = 'Cancer' group by ethnic_group order by patient_count desc

#Q. Find the most frequently prescribed medication for specific medical conditions.

select Medical_Condition, Medication, count(Admission_ID) as patient_count from `hospital.hospital` group by Medical_Condition, Medication order by patient_count desc

Which medication is prescribed less than 5 times

select Medication, count(Admission_ID) as patient_count from `hospital.hospital` group by Medication having count(Admission_ID) < 8100 order by patient_count

select Medication, count(Admission_ID) as patient_count from `hospital.hospital` group by Medication having patient_count < 8100 order by patient_count

#Q. Identify doctors who have treated more than 10 patients.

select Doctor, count(Admission_ID) as count_patient from
`hospital.hospital`
group by Doctor
having count_patient > 10
order by count_patient

#Q. List medical conditions that have an average hospitalization period greater than 15 days and where the maximum billing amount exceeds \$25,000

select Medical_Condition, avg(Days_Hospitalised),
max(Billing_Amount)
from `hospital.hospital`
group by Medical_Condition
having avg(Days_Hospitalised) > 15 and
max(Billing_Amount) > 25000

#Q. Find hospitals where the average billing amount exceeds the overall average billing amount by at least 50%.

select Hospital, avg(Billing_Amount)
from `hospital.hospital`
group by Hospital
having avg(Billing_Amount) >
(select avg(Billing_Amount) * 1.5
from `hospital.hospital`)

H.W: find out average billing of all insurance provider where each hospitalisation is more than 5 days and avg billing cost is greater than 10,000