NINJAROCKSTARS\_SQL HACKATHON

EXTRA QUESTIONS & QUERIES

--1.Which Service Type Patients have more Death rate

Query:

SELECT S."Service", count(RA."Patient\_ID") FILTER(WHERE("DischargeDisposition" = 'Expired')) as "count1"

FROM "ReAdmissionRegistry" RA JOIN "DischargeDisposition" DD

ON RA."Discharge\_ID" = DD."Discharge\_ID"

JOIN "Service" S

ON S."Service\_ID" = RA."Service\_ID"

GROUP BY S."Service" ORDER BY count1 desc

Graphical user interface, text, application

Description automatically generated

-- 2.Mortality Distribution In ICU Service Based On Primary Diagnosis

Query:

SELECT S."Service", PD."PrimaryDiagnosis", count(RA."Patient\_ID")

FROM "ReAdmissionRegistry" RA JOIN "DischargeDisposition" DD

ON RA."Discharge\_ID" = DD."Discharge\_ID"

JOIN "Service" S

ON S."Service\_ID" = RA."Service\_ID"

JOIN "PrimaryDiagnosis" PD

ON PD."Diagnosis\_ID" = RA."Diagnosis\_ID"

WHERE "DischargeDisposition" = 'Expired'

GROUP BY S."Service", PD."PrimaryDiagnosis" HAVING "Service" = 'ICU' ORDER BY 1,2

Table

Description automatically generated

-- 3..Which Primary Diagnosis Patients has Maximum LOS

Query:

SELECT "PrimaryDiagnosis",TRUNC(CAST(AVG("ExpectedLOS") AS DECIMAL),2) AS AVG\_los

FROM public."ReAdmissionRegistry" JOIN public."PrimaryDiagnosis"

ON "PrimaryDiagnosis"."Diagnosis\_ID" = "ReAdmissionRegistry"."Diagnosis\_ID"

GROUP BY "PrimaryDiagnosis" ORDER BY AVG\_los DESC LIMIT 1

Graphical user interface, application

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--4.Percentage of Male and Female Patients in Hospital DB

Query:

SELECT "Gender", ((COUNT("Patient\_ID")\*100)/(Select count("Patient\_ID") FROM "Patients"))||'%' as Percentage

From "Patients" P JOIN "Gender" G

ON P."Gender\_ID" = G."Gender\_ID"

GROUP BY "Gender"

Graphical user interface, text, application

Description automatically generated

--5. Display the output as below:

Graphical user interface, text, application, email

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Query:

SELECT

CASE

WHEN "Gender" = 'Male' THEN overlay("FirstName" placing 'Mr.' FROM 1 for 0)

WHEN "Gender" = 'Female' THEN overlay("FirstName" placing 'Ms.' FROM 1 for 0)

END AS "First\_Name"

,"LastName"

FROM "Patients" P JOIN "Gender" G

ON P."Gender\_ID" = G."Gender\_ID"

-- 6. Ranking Primary Diagnosis based on Transfer Patient count.

Query:

With Perc\_CTE AS

(

SELECT PD."PrimaryDiagnosis" as Primary\_Diagnosis, count(D."Patient\_ID") FILTER (WHERE ("DischargeDisposition" = 'Transfer')) as P\_count

FROM "Discharges" D JOIN "PrimaryDiagnosis" PD

ON D."Diagnosis\_ID"= PD."Diagnosis\_ID"

JOIN "DischargeDisposition" DD

ON D."Discharge\_ID" = DD."Discharge\_ID"

GROUP BY PD."PrimaryDiagnosis" ORDER BY P\_count DESC

) Select Primary\_Diagnosis,P\_count,Dense\_Rank() OVER(ORDER BY P\_count DESC) as DiagnosisRank FROM Perc\_CTE Table

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