# HIVE Data Analysis

## Queries:

1) SELECT

> COUNT(\*) AS total\_patients,

> SUM(DIABETES) AS patients\_with\_diabetes,

> SUM(COPD) AS patients\_with\_COPD,

> SUM(PNEUMONIA) AS patients\_with\_pneumonia,

> SUM(ASTHMA) AS patients\_with\_asthma,

> SUM(OBESITY) AS patients\_with\_obesity,

> SUM(HIPERTENSION) AS patients\_with\_hypertension

> FROM revanth\_table12;

2) SELECT SEX, PATIENT\_TYPE, AVG(AGE) AS avg\_age, MIN(AGE) AS min\_age, MAX(AGE) AS max\_age

> FROM revanth\_table12

> GROUP BY SEX, PATIENT\_TYPE

> ORDER BY SEX, PATIENT\_TYPE;

3) SELECT USMER, COUNT(\*) AS duplicates

> FROM revanth\_table12

> GROUP BY USMER

> HAVING COUNT(\*) > 1;

4)SELECT COUNT(\*) AS intubated\_in\_icu

> FROM revanth\_table12

> WHERE INTUBED = 1 AND ICU = 1;

5) SELECT AGE, AVG(DIABETES) AS avg\_diabetes, AVG(HIPERTENSION) AS avg\_hypertension

> FROM revanth\_table12

> GROUP BY AGE

> HAVING AGE > 20 AND AGE < 90

> ORDER BY AGE;

6)SELECT

>

> CASE

>

> WHEN AGE BETWEEN 0 AND 19 THEN '0-19'

>

> WHEN AGE BETWEEN 20 AND 39 THEN '20-39'

>

> WHEN AGE BETWEEN 40 AND 59 THEN '40-59'

>

> WHEN AGE BETWEEN 60 AND 79 THEN '60-79'

>

> ELSE '80+'

>

> END AS age\_group,

>

> AVG(DIABETES) AS avg\_diabetes,

>

> AVG(HIPERTENSION) AS avg\_hypertension,

>

> COUNT(\*) AS total\_patients

>

> FROM revanth\_table12

>

> GROUP BY

>

> CASE

>

> WHEN AGE BETWEEN 0 AND 19 THEN '0-19'

>

> WHEN AGE BETWEEN 20 AND 39 THEN '20-39'

>

> WHEN AGE BETWEEN 40 AND 59 THEN '40-59'

>

> WHEN AGE BETWEEN 60 AND 79 THEN '60-79'

>

> ELSE '80+'

>

> END

>

> ORDER BY (avg\_diabetes + avg\_hypertension) DESC

>

> LIMIT 5;

7)SELECT

AVG(CASE WHEN DIABETES = 1 THEN ICU ELSE NULL END) AS diabetes\_icu\_rate,

AVG(CASE WHEN OBESITY = 1 THEN ICU ELSE NULL END) AS obesity\_icu\_rate,

AVG(CASE WHEN PNEUMONIA = 1 THEN ICU ELSE NULL END) AS pneumonia\_icu\_rate,

AVG(CASE WHEN RENAL\_CHRONIC = 1 THEN ICU ELSE NULL END) AS renal\_chronic\_icu\_rate

FROM revanth\_table12;

8)SELECT

SEX,

AVG(DIABETES) AS avg\_diabetes,

AVG(HIPERTENSION) AS avg\_hypertension,

AVG(OBESITY) AS avg\_obesity,

AVG(RENAL\_CHRONIC) AS avg\_renal\_chronic

FROM revanth\_table12

GROUP BY SEX

ORDER BY SEX;

9)SELECT

PATIENT\_TYPE,

COUNT(\*) AS total\_patients,

SUM(CASE WHEN ICU = 1 THEN 1 ELSE 0 END) AS icu\_admissions,

ROUND(SUM(CASE WHEN ICU = 1 THEN 1 ELSE 0 END) \* 100.0 / COUNT(\*), 2) AS icu\_admission\_rate

FROM revanth\_table12

GROUP BY PATIENT\_TYPE

ORDER BY icu\_admission\_rate DESC;

10)SELECT

SUM(CASE WHEN DIABETES = 1 AND OBESITY = 1 AND HIPERTENSION = 1 THEN 1 ELSE 0 END) AS diabetes\_obesity\_hypertension,

SUM(CASE WHEN DIABETES = 1 AND OBESITY = 1 THEN 1 ELSE 0 END) AS diabetes\_obesity,

SUM(CASE WHEN DIABETES = 1 AND HIPERTENSION = 1 THEN 1 ELSE 0 END) AS diabetes\_hypertension,

SUM(CASE WHEN OBESITY = 1 AND HIPERTENSION = 1 THEN 1 ELSE 0 END) AS obesity\_hypertension,

SUM(CASE WHEN DIABETES = 1 THEN 1 ELSE 0 END) AS diabetes\_only,

SUM(CASE WHEN OBESITY = 1 THEN 1 ELSE 0 END) AS obesity\_only,

SUM(CASE WHEN HIPERTENSION = 1 THEN 1 ELSE 0 END) AS hypertension\_only

FROM revanth\_table12;

11) SELECT

CASE

WHEN AGE BETWEEN 0 AND 19 THEN '0-19'

WHEN AGE BETWEEN 20 AND 39 THEN '20-39'

WHEN AGE BETWEEN 40 AND 59 THEN '40-59'

WHEN AGE BETWEEN 60 AND 79 THEN '60-79'

ELSE '80+'

END AS age\_group,

COUNT(\*) AS total\_patients,

SUM(CASE WHEN DATE\_DIED != '9999-99-99' THEN 1 ELSE 0 END) AS total\_deaths,

ROUND(SUM(CASE WHEN DATE\_DIED != '9999-99-99' THEN 1 ELSE 0 END) \* 100.0 / COUNT(\*), 2) AS mortality\_rate

FROM revanth\_table12

GROUP BY

CASE

WHEN AGE BETWEEN 0 AND 19 THEN '0-19'

WHEN AGE BETWEEN 20 AND 39 THEN '20-39'

WHEN AGE BETWEEN 40 AND 59 THEN '40-59'

WHEN AGE BETWEEN 60 AND 79 THEN '60-79'

ELSE '80+'

END

ORDER BY mortality\_rate DESC;

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