SQL Queries

1. Average Income by Marital Status and Education Level

SELECT \*

FROM (

SELECT

`Marital Status`,

`Education Level`,

ROUND(AVG(Income), 2) AS avg\_income

FROM

`final-project-mz.depression\_data.cleaned`

GROUP BY

`Marital Status`, `Education Level`

)

PIVOT (

AVG(avg\_income) FOR `Education Level` IN ('High School', 'Associate Degree', 'Bachelor\'s Degree')

)

ORDER BY

`Marital Status`;

2. Correlation between Physical Activity Level, Income, and Employment Status

SELECT

`Physical Activity Level`,

`Employment Status`,

ROUND(AVG(Income), 2) AS avg\_income

FROM

`final-project-mz.depression\_data.cleaned`

GROUP BY

`Physical Activity Level`, `Employment Status`

ORDER BY

`Physical Activity Level`, `Employment Status`;

3. Alcohol Consumption Distribution by Age Group

SELECT

`Age Group`,

`Alcohol Consumption`,

COUNT(\*) AS count

FROM

`final-project-mz.depression\_data.cleaned`

GROUP BY

`Age Group`, `Alcohol Consumption`

ORDER BY

`Age Group`;

4. Number of Individuals with a Family History of Depression

SELECT

COUNT(\*) AS family\_history\_count,

(SELECT COUNT(\*) FROM `final-project-mz.depression\_data.cleaned`) AS total\_count,

ROUND(COUNT(\*) \* 100.0 / (SELECT COUNT(\*) FROM `final-project-mz.depression\_data.cleaned`), 2) AS percentage

FROM

`final-project-mz.depression\_data.cleaned`

WHERE

`Family History of Depression` = True;

5. Percentage of Individuals with a History of Mental Illness

SELECT

COUNT(\*) AS mental\_illness\_count,

(SELECT COUNT(\*) FROM `final-project-mz.depression\_data.cleaned`) AS total\_count,

ROUND(COUNT(\*) \* 100.0 / (SELECT COUNT(\*) FROM `final-project-mz.depression\_data.cleaned`), 2) AS percentage\_mental\_illness

FROM

`final-project-mz.depression\_data.cleaned`

WHERE

`History of Mental Illness` = True;

6. Employment Status and Sleep Issues

SELECT \*

FROM (

SELECT

`Employment Status`,

`Sleep Patterns`,

COUNT(\*) AS count

FROM

`final-project-mz.depression\_data.cleaned`

GROUP BY

`Employment Status`, `Sleep Patterns`

)

PIVOT (

SUM(count) FOR `Sleep Patterns` IN ('Good', 'Poor')

)

ORDER BY

`Employment Status` DESC;

7. Dietary Habits by Age and Marital Status

SELECT

`Age Group`,

`Dietary Habits`,

`Marital Status`,

COUNT(\*) AS count

FROM

`final-project-mz.depression\_data.cleaned`

GROUP BY

`Age Group`, `Dietary Habits`, `Marital Status`

ORDER BY

`Age Group`, `Dietary Habits`, `Marital Status`;

8. Smoking Status and Chronic Medical Conditions

SELECT

`Smoking Status`,

`true` AS `With Chronic Medical Conditions`,

`false` AS `Without Chronic Medical Conditions`

FROM (

SELECT

`Smoking Status`,

`Chronic Medical Conditions`,

COUNT(\*) AS count

FROM

`final-project-mz.depression\_data.cleaned`

GROUP BY

`Smoking Status`, `Chronic Medical Conditions`

)

PIVOT (

SUM(count) FOR `Chronic Medical Conditions` IN (true, false)

)

ORDER BY

`Smoking Status`;

9. Proportion of Individuals with Mental Illness and Substance Abuse

SELECT

COUNT(\*) AS `Individuals with both conditions`,

ROUND((COUNT(\*) \* 100.0 /

(SELECT COUNT(\*) FROM `final-project-mz.depression\_data.cleaned` WHERE `History of Mental Illness` = TRUE)

), 2) AS `Percentage of individuals with both conditions`

FROM

`final-project-mz.depression\_data.cleaned`

WHERE

`History of Mental Illness` = TRUE

AND `History of Substance Abuse` = TRUE;

10. Average Number of Children for Families with Chronic Medical Conditions

SELECT

`Number of Children`,

COUNT(\*) AS `count`

FROM

`final-project-mz.depression\_data.cleaned`

WHERE

`Chronic Medical Conditions` = TRUE

GROUP BY

`Number of Children`

ORDER BY

`Number of Children`;