

PROJECT DESCRIPTION:

To analyse and give suitable solutions for the given queries through the structured query language.

APPROACH:

Understanding the given question and thinking logically and analytically to solve it.

TECH-STACK USED:

The software used in these projects is Microsoft Excel for creating a table database and MYSQL for creating a query in SQL language for achieving the solution.

INSIGHTS:

By using SQL queries for solving the table data it is easy to separate specific data needed from the table which will be helpful for analytical purposes.

RESULT:

By solving the given problems, I have learned to think differently while shorting and aggregating particular data and removing unwanted data to get the required data from the table.

- **THE PRODUCT WHICH HAS HIGH RATINGS**

```
SELECT `Product line`,max(Rating) as ratings
from newschema.supermarket_sales
group by `Product line`
order by ratings desc
;
```

- **FIND THE HIGH PROFIT AND CATEGORISE BY PRODUCT LINE AND GENDER**

```
select `Gender`,`Product line`,max(`gross income`) AS income
from newschema.supermarket_sales
group by `Product line`,`gender`
order by income desc
LIMIT 10;
```

- **TO FIND BRANCH WITH HIGH PROFIT**

```
select `Branch`, max(`gross income`) as gross income
from newschema.supermarket_sales
group by Branch;
```

- **IN WHICH WEEK DAY SALES WAS HIGH**

```
SELECT
weekday(`date`) AS DayoftheWeek,
COUNT(*) AS NumberOfSales
from newschema.supermarket_sales
group by DayoftheWeek
ORDER BY NumberOfSales DESC
;
```

- **IN WHICH INTERVAL HIGHEST SALES WAS HAPPENED**

```
select
CASE

WHEN `time` BETWEEN `9:00:00` AND `12:00:00` THEN '9_12'

WHEN `time` BETWEEN `12:00:00` AND `6:00:00` THEN '12_6'

ELSE 'after 6pm '

END AS TIME_INTERVALS
from newschema.supermarket_sales
;
```