**Q Sales Trend Analysis Using Aggregations**

**A .Use EXTRACT(MONTH FROM order\_date) for month.**

show databases;

create database sales;

use sales;

show tables ;

Select \* From sales\_data;

SELECT

EXTRACT(MONTH FROM STR\_TO\_DATE(order\_date, '%Y-%m-%d')) AS order\_month,

SUM(amount) AS total\_sales

FROM sales\_data

GROUP BY order\_month

ORDER BY order\_month;

**Outcome:-**

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B:-GROUP BY year/month.

show databases;

create database sales;

use sales;

show tables ;

Select \* From sales\_data;

SELECT

STR\_TO\_DATE(order\_date, '%d-%m-%Y') AS order\_date,

COUNT(DISTINCT order\_id) AS order\_volume,

SUM(amount) AS total\_sales

FROM sales\_data

GROUP BY STR\_TO\_DATE(order\_date, '%d-%m-%Y')

ORDER BY STR\_TO\_DATE(order\_date, '%d-%m-%Y');

**Outcome:-**

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**C .Use SUM() for revenue.**

INSERT INTO orders (order\_date, amount, product\_id) VALUES

-> ('2025-01-10', 250, 101),

-> ('2025-01-25', 300, 102),

-> ('2025-02-05', 400, 103),

-> ('2025-02-22', 350, 104),

-> ('2025-03-12', 500, 105),

-> ('2025-03-27', 450, 106),

-> ('2025-04-08', 600, 107),

-> ('2025-04-20', 550, 108);

**Outcome:-**

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**d.COUNT(DISTINCT order\_id) for volume.**

SELECT

DATE\_FORMAT(STR\_TO\_DATE(order\_date, '%d-%m-%Y'), '%Y-%m') AS `year\_month`,

COUNT(DISTINCT order\_id) AS order\_volume

FROM sales\_data

GROUP BY `year\_month`

ORDER BY `year\_month`;

**Outcome:-**

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**e.Use ORDER BY for sorting.**

SELECT

DATE\_FORMAT(STR\_TO\_DATE(order\_date, '%d-%m-%Y'), '%Y-%m') AS `year\_month`,

COUNT(DISTINCT order\_id) AS order\_volume

FROM sales\_data

GROUP BY DATE\_FORMAT(STR\_TO\_DATE(order\_date, '%d-%m-%Y'), '%Y-%m')

ORDER BY DATE\_FORMAT(STR\_TO\_DATE(order\_date, '%d-%m-%Y'), '%Y-%m');

**Outcome:-**

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**f.Limit results for specific time periods.**

SELECT

DATE\_FORMAT(STR\_TO\_DATE(order\_date, '%d-%m-%Y'), '%Y-%m') AS `year\_month`,

COUNT(DISTINCT order\_id) AS order\_volume

FROM sales\_data

WHERE YEAR(STR\_TO\_DATE(order\_date, '%d-%m-%Y')) = 2024

GROUP BY 1

ORDER BY 1;

**Outcome:**

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