Retail sales

- -- Q. 1 Write a query to retrieve all columns for sales made on '22-11-05' select * from retailsales where sale date = '2022-11-05';
- -- Q. 2 Write a query to retrieve all transactions where the category is 'clothing' and the quantity sold is more than 10 in the month of nov 2022

SELECT*

FROM retailsales

WHERE category = 'clothing'

AND quantiy > 10

AND sale date >= '2022-11-01'

AND sale date <= '2022-11-30';

- -- NO Such Row
- Q.3 Write a SQL query to calculate the total sales (total_sale) for each category select Category, sum(total_sale) as Total_Sale from retailsales group by category;
- -- Q.4 Write a SQL query to find the average age of customers who purchased items from the 'Beauty' category

select avg(age) as Average_age from retailsales where category = 'Beauty';

- -- Q. 5 Write a SQL query to find all transactions where the total_sale is greater than 1000. Select * from retailsales where total_sale > 1000;
- -- Q. 6 Write a SQL query to find the total number of transactions (i»¿transactions_id) made by each gender in each category. select gender, category, count(i»¿transactions_id) as Total_Transaction from retailsales group by gender, category;
- -- Q. 7 Write a SQL query to calculate the average sale for each month. Also, find out the best-selling month in each year.

SELECT YEAR(sale_date) AS year, MONTH(sale_date) AS month, AVG(total_sale) AS avg_sale

FROM retailsales

GROUP BY YEAR(sale_date), MONTH(sale_date)

ORDER BY year, month;

-- Q. 8 Write a SQL query to find the top 5 customers based on the highest total sales. Select * from retailsales order by total sale desc limit 5;

-- Q. 9 Write a SQL query to find the number of unique customers who purchased items from each category. SELECT category as Category, COUNT(DISTINCT customer_id) AS unique_customers FROM retailsales GROUP BY category ORDER BY unique_customers DESC; -- Q. 10 Write a SQL query to create each shift and number of orders. SELECT CASE WHEN HOUR(sale_time) < 12 THEN 'Morning' WHEN HOUR(sale_time) BETWEEN 12 AND 17 THEN 'Afternoon' ELSE 'Evening' END AS shift, COUNT(transactions_id) AS total_orders FROM retailsales **GROUP BY shift**

ORDER BY total orders DESC;