

FMCG SALES ANALYSIS

DATABASE: fmcg_sales_db

TOOL: MYSQL

LANGUAGE: SQL













Q.Show all customers' name, age, and city

SELECT name, age, city
FROM Customers;

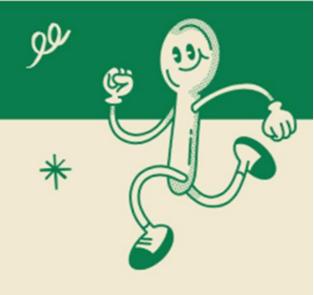
		-	-
	name	age	city
١	Ayan	22	Kolkata
	Riya	24	Delhi
	Sourav	28	Mumbai
	Neha	30	Bangalore
	Ravi	26	Hyderabad



Q.Show product name, category, and price for all products

SELECT product_name, category, price
FROM Products;

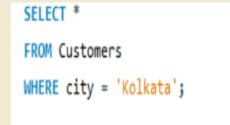
	product_name	category	price
•	Dove Soap	Personal Care	45.00
	Pepsodent Toothpaste	Personal Care	50.00
	Lays Chips	Snacks	20.00
	Bru Coffee	Beverage	110.00
	Tata Salt	Grocery	25.00

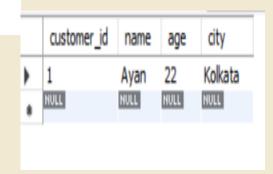






Q.Show all customers from Kolkata









Q. Show all products with price greater than ₹50

SELECT product_name, category, price
FROM Products
WHERE price > 50;

	product_name	category	price
١	Bru Coffee	Beverage	110.00
	Fair & Lovely	Personal Care	90.00
	Tropicana Juice	Beverage	95.00
	Ariel Detergent	Cleaning	120.00
	Surf Excel	Cleaning	135.00













Q.Show all sales with quantity greater than 2



FROM Sales

WHERE quantity > 2;

	sale_id	customer_id	product_id	quantity	sale_date
•	3	3	6	3	2024-06-03
	5	5	10	4	2024-06-05
	10	10	9	5	2024-06-10





Q.Show product name, price, and total price for 3 units

SELECT product_name, price, (price * 3) AS total_price
FROM Products;

	product_name	price	total_price
١	Dove Soap	45.00	135.00
	Pepsodent Toothpaste	50.00	150.00
	Lays Chips	20.00	60.00
	Bru Coffee	110.00	330.00
	Tata Salt	25.00	75.00
			7.7









Q.Show top 5 most expensive products

SELECT product_name, category, price
FROM Products
ORDER BY price DESC
LIMIT 5;

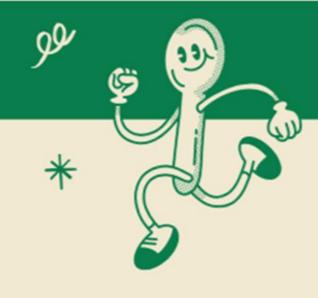
	product_name	category	price
١	Surf Excel	Cleaning	135.00
	Ariel Detergent	Cleaning	120.00
	Bru Coffee	Beverage	110.00
	Tropicana Juice	Beverage	95.00
	Fair & Lovely	Personal Care	90.00





SELECT sale_id, customer_id, product_id, sale_date, quantity
FROM Sales
ORDER BY sale_date DESC
LIMIT 3;

	sale_id	customer_id	product_id	sale_date	quantity
•	15	15	11	2024-06-15	2
	14	14	14	2024-06-14	1
	13	13	7	2024-06-13	1









Q.Show total quantity sold across all sales

SELECT SUM(quantity) AS total_quantity_sold
FROM Sales;

total_quantity_sold



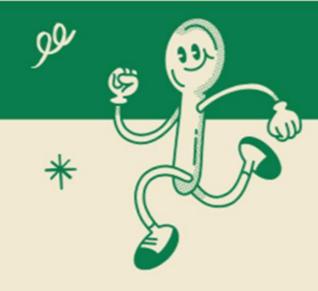




SELECT AVG(price) AS average_price_of_all_products
FROM Products;

average_price_of_all_products

60.466667







SELECT p.product_name, SUM(s.quantity) AS total_quantity_sold

FROM Products AS p

INNER JOIN Sales AS s ON p.product_id = s.product_id

GROUP BY p.product_name;

	product_name	total_quantity_sold
١	Dove Soap	1
	Pepsodent Toothpaste	1
	Lays Chips	2
	Bru Coffee	1
	Tata Salt	2



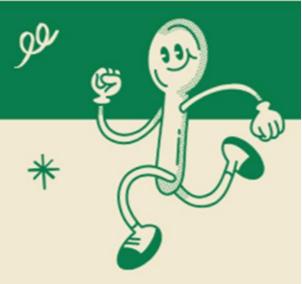




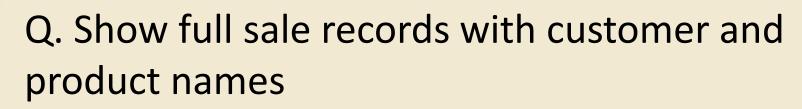
Q. Show only those products with more than 3 units sold

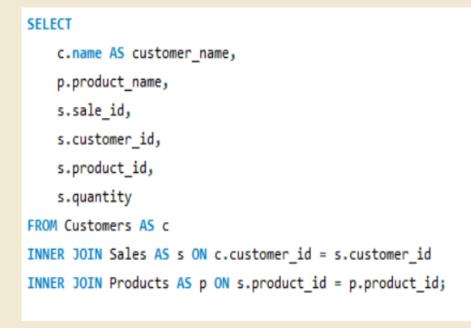
```
SELECT p.product_name, SUM(s.quantity) AS total_quantity_sold
FROM Products AS p
INNER JOIN Sales AS s ON p.product_id = s.product_id
GROUP BY p.product_name
HAVING SUM(s.quantity) > 3;
```

	product_name	total_quantity_sold
•	Maggie Noodles	5
	Good Day Cookies	4







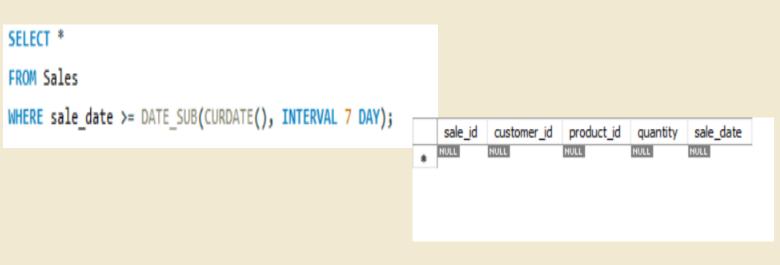


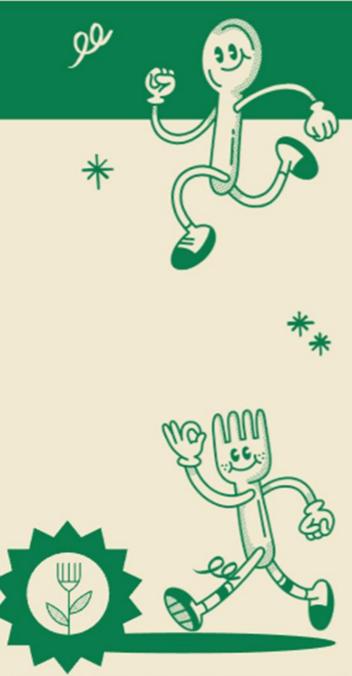
	customer_name	product_name	sale_id	customer_id	product_id	quantity
•	Ayan	Lays Chips	1	1	3	2
	Riya	Dove Soap	2	2	1	1
	Sourav	Parle-G Biscuits	3	3	6	3
	Neha	Tata Salt	4	4	5	2
	Ravi	Good Day Cookies	5	5	10	4















Q.Show all customers whose names start with 'A'

SELECT customer_id, name, age, city
FROM Customers
WHERE name LIKE 'A%';

'n					
		customer_id	name	age	city
	•	1	Ayan	22	Kolkata
		7	Arjun	32	Pune
		12	Ankita	24	Patna







Q.Classify customers into age groups

```
CASE

WHEN age < 25 THEN 'Young'

WHEN age BETWEEN 25 AND 40 THEN 'Adult'

WHEN age > 40 THEN 'Senior'

END AS age_group

FROM Customers;
```

		1	· · · · · · · · · · · · · · · · · · ·	
	name	age	city	age_group
þ	Ayan	22	Kolkata	Young
	Riya	24	Delhi	Young
	Sourav	28	Mumbai	Adult
	Neha	30	Bangalore	Adult
	Ravi	26	Hyderabad	Adult



Q.Label each sale as bulk or regular based on quantity

```
p.product_name,
s.sale_id,
s.customer_id,
s.product_id,
s.sale_date,
s.quantity,

CASE
WHEN s.quantity > 3 THEN 'BULK_ORDER'
ELSE 'REGULAR_ORDER'
END AS sales_status
FROM Sales AS s
INNER JOIN Products AS p ON s.product_id = p.product_id;
```

	product_name	sale_id	customer_id	product_id	sale_date	quantity	sales_status
•	Lays Chips	1	1	3	2024-06-01	2	REGULAR_ORDER
	Dove Soap	2	2	1	2024-06-02	1	REGULAR_ORDER
	Parle-G Biscuits	3	3	6	2024-06-03	3	REGULAR_ORDER
	Tata Salt	4	4	5	2024-06-04	2	REGULAR_ORDER
	Good Day Cookies	5	5	10	2024-06-05	4	BULK_ORDER











Q.Show top 3 customers by total quantity purchased

SELECT c.customer_id, c.name, SUM(s.quantity) AS highest_total_quantity

FROM Customers AS c

INNER JOIN Sales AS s ON c.customer_id = s.customer_id

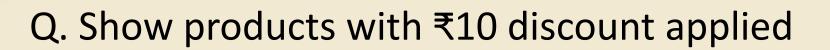
GROUP BY c.customer_id, c.name

ORDER BY highest_total_quantity DESC

LIMIT 3;

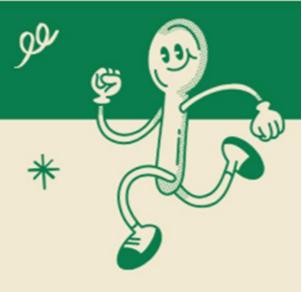
	customer_id	name	highest_total_quantity
•	10	Kriti	5
	5	Ravi	4
	3	Sourav	3





SELECT product_name, price, (price - 10) AS discounted_price
FROM Products;

	product_name	price	discounted_price
•	Dove Soap	45.00	35.00
	Pepsodent Toothpaste	50.00	40.00
	Lays Chips	20.00	10.00
	Bru Coffee	110.00	100.00
	Tata Salt	25.00	15.00



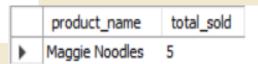






Q. Show top-selling product overall

```
SELECT p.product_name, SUM(s.quantity) AS total_sold
FROM Products AS p
INNER JOIN Sales AS s ON p.product_id = s.product_id
GROUP BY p.product_name
ORDER BY total_sold DESC
LIMIT 1;
```











HANK YOU







