



# SQL PROJECT

Flipkart\_shopping dataset

# INTRODUCTION

VCV

**Flipkart is India's largest e-commerce platform, offering a wide range of products including electronics, fashion, home, appliances and more**

# ABSTRACT

The flipkart shopping dataset is a comprehensive collection of transactional data from one of india's largest e-commerce platforms, flipkart. This dataset encompasses a wide range of variables, providing insights into customer purchasing behavior, product performance, and market trends.

# 1.What is the total sales amount for each product?

```
SELECT ProductName, SUM(TotalSales) AS TotalSalesAmount  
FROM flipkart GROUP BY ProductName;
```

ProductName	TotalSalesAmount
Educational Book	4522055.35
Jeans	3685259.6
Face Cream	3646816.9700000016
Smartwatch	3680177.8000000007
Cookware Set	2490551.4300000006
Mixer Grinder	2297176.5999999996
Sneakers	2883134.9599999995
Table Lamp	3986691.68
Jacket	3161049.05
Tablet	2895523.45
Perfume	3266905.7499999999
Lipstick	2844209.0799999996
Smartphone	2875922.8300000005
Comic Book	1938459.9800000002
Cookbook	2514179.2099999995
T-Shirt	2907013.3199999994
Bedsheet	1883843.2799999998
Hair Dryer	2505130.6700000004
Laptop	4132783.7199999997
Shampoo	2417521.5799999996
Headphones	3722765.2699999999
Fiction Novel	3172999.9099999988
Self-Help Book	2638065.1999999997
Sofa Cover	2666946.120000001

## 2. Which category has the highest total sales?

```
SELECT Category, SUM(TotalSales) AS TotalSalesAmount  
FROM flipkart GROUP BY Category ORDER BY  
TotalSalesAmount DESC LIMIT 1;
```

Category	TotalSalesAmount
Electronics	17307173.0699999997

### 3.What is the average price of products in each category?

```
SELECT Category, AVG(Price) AS AveragePrice FROM flipkart GROUP BY Category;
```

Category	AveragePrice
Books	23342.025454545466
Clothing	25185.978518518506
Beauty	24610.456614583323
Electronics	25824.873133640547
Home & Kitchen	23587.667668393788

## 4.What is the average quantity sold for each product?

```
SELECT ProductName, AVG(QuantitySold) AS AverageQuantitySold  
FROM flipkart GROUP BY ProductName;
```

ProductName	AverageQuantitySold
Educational Book	2.9375
Jeans	3.1429
Face Cream	3.2632
Smartwatch	2.9149
Cookware Set	3.0000
Mixer Grinder	3.0833
Sneakers	3.2051
Table Lamp	3.0652
Jacket	3.1842
Tablet	3.2105
Perfume	3.1250
Lipstick	3.0455
Smartphone	3.0750
Comic Book	3.0769
Cookbook	3.1724
T-Shirt	3.1951
Bedsheet	2.9667
Hair Dryer	3.0000
Laptop	3.2500
Shampoo	2.7059
Headphones	3.0682
Fiction Novel	3.3659

## 5.Which product has the highest total sales?

```
SELECT ProductName, SUM(TotalSales) AS TotalSalesAmount  
FROM flipkart GROUP BY ProductName ORDER BY  
TotalSalesAmount DESC LIMIT 1;
```

	ProductName	TotalSalesAmount
▶	Educational Book	4522055.35



6.Which category has the highest average customer rating?

```
SELECT Category, AVG(CustomerRating) AS AverageRating  
FROM flipkart GROUP BY Category ORDER BY AverageRating  
DESC LIMIT 1;
```

Category	AverageRating
Home & Kitchen	3.138860103626945

# 7.What is the total sales per payment method?

```
SELECT PaymentMethod, SUM(TotalSales) AS TotalSalesAmount  
FROM flipkart GROUP BY PaymentMethod;
```

PaymentMethod	TotalSalesAmount
Debit Card	12142559.0399999995
UPI	12790919.4800000006
Wallet	13446764.1600000008
COD	12457136.5499999999
Credit Card	11155785.9899999996
Net Banking	13219947.5199999994

# 8.How many orders were made using each payment method?

```
SELECT ProductName, SUM(TotalSales) AS TotalSalesAmount
FROM flipkart GROUP BY ProductName;
```

PaymentMethod	TotalOrders
COD	169
Credit Card	146
Debit Card	171
Net Banking	166
UPI	176
Wallet	172

# 9.What is the average customer rating for each product?

```
SELECT ProductName, AVG(CustomerRating) AS AverageRating FROM flipkart
GROUP BY ProductName;
```

ProductName	AverageRating
Educational Book	3.0640625000000004
Jeans	2.9928571428571433
Face Cream	3.0131578947368425
Smartwatch	3.1106382978723395
Cookware Set	3.2349999999999994
Mixer Grinder	2.9027777777777772
Sneakers	2.8743589743589752
Table Lamp	2.8913043478260865
Jacket	2.93157894736842
Tablet	3.0684210526315794
Perfume	3.0725000000000007
Lipstick	2.815909090909091
Smartphone	3.0725000000000002
Comic Book	3.2948717948717943
Cookbook	3.068965517241379
T-Shirt	3.0878048780487806
Bedsheet	3.7133333333333333
Hair Dryer	2.6333333333333337
Laptop	2.88125
Shampoo	2.8058823529411767
Headphones	2.8295454545454546
Fiction Novel	3.060975609756097
Self-Help Book	2.9055555555555554
Sofa Cover	3.109756097560976

# 10.Which product has the lowest customer rating

```
SELECT      ProductName,      AVG(CustomerRating)      AS
AverageRating FROM flipkart GROUP BY ProductName ORDER
BY AverageRating ASC LIMIT 1;
```

	ProductName	AverageRating
	Hair Dryer	2.633333333333333333337

# 11.How many products were sold in total each year?

```
SELECT YEAR(OrderDate) AS OrderYear, SUM(QuantitySold) AS  
TotalQuantitySold FROM flipkart GROUP BY OrderYear ORDER BY  
OrderYear;
```

TotalQuantitySold
3097

# 12. List the top 5 products by quantity sold.

```
SELECT      ProductName,      SUM(QuantitySold)      AS  
TotalQuantitySold FROM flipkart GROUP BY ProductName  
ORDER BY TotalQuantitySold DESC LIMIT 5;
```

	ProductName	TotalQuantitySold
▶	Educational Book	188
	Laptop	156
	Table Lamp	141
	Fiction Novel	138
	Smartwatch	137

# 13.What is the total quantity of products sold each day?

```
SELECT OrderDate, SUM(QuantitySold) AS TotalQuantitySold  
FROM flipkart GROUP BY OrderDate ORDER BY OrderDate;
```

OrderDate	TotalQuantitySold
01-01-2025	13
01-02-2025	13
01-03-2024	10
01-04-2024	4
01-05-2024	8
01-06-2024	8
01-08-2024	8
01-09-2024	16
01-10-2024	10
01-11-2024	2
01-12-2024	1
02-01-2025	22
02-02-2025	15
02-03-2024	6
02-04-2024	8
02-05-2024	8
02-06-2024	6
02-07-2024	7
02-08-2024	12
02-09-2024	7
02-10-2024	8
02-11-2024	10
02-12-2024	14



14.Which products have a customer rating higher than 4.5 and total sales above 5000?

```
SELECT ProductName, CustomerRating, SUM(TotalSales) AS  
TotalSalesAmount FROM flipkart GROUP BY ProductName,  
CustomerRating HAVING CustomerRating > 4.5 AND  
SUM(TotalSales) > 5000;
```

ProductName	CustomerRating	TotalSalesAmount
Jacket	4.7	147962.5
Smartwatch	4.7	359849.82
Jacket	4.6	177236.8
Sofa Cover	4.9	245458.2
Tablet	4.7	275469.2
Shampoo	4.8	136163.97
Shampoo	5	61945.64
Smartphone	4.9	207754.03
Face Cream	4.8	219880.94999999998
Fiction Novel	4.7	149412.35
Fiction Novel	4.6	170133.04
Mixer Grinder	4.7	225151.46000000002

15.Which products have sales greater than 10,000 and price higher than 1000?

```
SELECT      ProductName,      Price,      SUM(TotalSales)      AS  
TotalSalesAmount FROM flipkart GROUP BY ProductName,  
Price HAVING SUM(TotalSales) > 10000 AND Price > 1000;
```

ProductName	Price	TotalSalesAmount
Educational Book	49069.56	98139.12
Jeans	12755.85	51023.4
Face Cream	11092.19	44368.76
Smartwatch	32657.81	32657.81
Cookware Set	26590.08	79770.24
Mixer Grinder	10475.03	20950.06
Sneakers	38647.72	115943.16
Table Lamp	24818.59	74455.77
Tablet	26876.51	53753.02
Perfume	46409.57	232047.85
Lipstick	48780.78	243903.9
Educational Book	6670.82	33354.1
Smartphone	10826.05	10826.05
Mixer Grinder	18197.89	90989.45
Cookbook	20817.46	41634.92