SQL TASK

I Have a dataset in which two csv files are preset

1)details csv

2)orders csv

1. Total Sales and Profit by Category

SELECT

Category,

SUM(Amount) AS TotalSales,

SUM(Profit) AS TotalProfit

FROM

details

GROUP BY

Category

ORDER BY

TotalSales DESC;

	Category	TotalSales	TotalProfit
١	Electronics	166267	13162
	Clothing	144323	13325
	Furniture	127181	10476

2) Orders with High Quantity (more than 5 items)

SELECT 'Order ID', Quantity, Amount, Category, 'Sub-Category'

FROM details

WHERE Quantity > 5;

	Order ID	Quantity	Amount	Category	Sub-Category
•	B-25681	7	1096	Electronics	Electronic Games
	B-26055	14	5729	Furniture	Chairs
	B-25955	8	2927	Furniture	Bookcases
	B-26093	8	2847	Electronics	Printers
	B-25703	9	231	Clothing	Hankerchief
	D 25007	-	2125	Clastication	Deinkenn

3) Total Sales and Profit by Category (filtered by Quantity > 2)

SELECT

Category,

SUM(Amount) AS TotalSales,

SUM(Profit) AS TotalProfit

FROM

details

WHERE

Quantity > 2

GROUP BY

Category

ORDER BY

TotalSales DESC;

	Category	TotalSales	TotalProfit
•	Electronics	135175	9971
	Clothing	119455	11077
	Furniture	103643	8057

4) *Combine orders and details for full order info

SELECT

- o.`Order ID`,
- o.CustomerName,

```
o.City,
```

d.Amount,

d.Profit,

d.Category

FROM

orders o

INNER JOIN

details d ON o.`Order ID` = d.`Order ID`;

	Order ID	CustomerName	City	Amount	Profit	Category
•	B-25681	Bhawna	Indore	1096	658	Electronics
	B-26055	Harivansh	Mathura	5729	64	Furniture
	B-25955	Shiva	Pune	2927	146	Furniture
	B-26093	Sarita	Pune	2847	712	Electronics
	B-25602	Vrinda	Pune	2617	1151	Electronics
	R-25881	Lalita	Mathura	2244	247	Clothing

5) Show all orders, even if they don't have matching details

SELECT

o.`Order ID`,

o.CustomerName,

d.Amount

FROM

orders o

LEFT JOIN

details d ON o. Order ID = d. Order ID;

	Order ID	CustomerName	Amount
•	B-26055	Harivansh	1218
	B-26055	Harivansh	1250
	B-26055	Harivansh	94
	B-26055	Harivansh	213
	B-26055	Harivansh	227
	R-26055	Harivansh	57

6) Show all details, even if orders are missing

SELECT

```
d.`Order ID`,
```

d.Category,

o.City

FROM

details d

RIGHT JOIN

orders o ON d. Order ID = o. Order ID;

	Order ID	Category	City
•	B-26055	Furniture	Mathura
	B-26055	Electronics	Mathura
	B-26055	Clothing	Mathura

7) Cities with above-average total sales

SELECT

City,

SUM(Amount) AS TotalSales

FROM

orders o

JOIN

details d ON o. Order ID = d. Order ID

GROUP BY

City

HAVING

```
TotalSales > (

SELECT AVG(city_sales)

FROM (

SELECT SUM(Amount) AS city_sales

FROM orders o

JOIN details d ON o.`Order ID` = d.`Order ID`

GROUP BY City

) AS avg_table

);
```

	City	TotalSales
•	Indore	63680
	Mathura	28747
	Pune	43612
	Mumbai	58886
	Delhi	22957
	Chandigarh	21142

8) Average profit and total quantity per payment mode

SELECT

PaymentMode,

AVG(Profit) AS AvgProfit,

SUM(Quantity) AS TotalQuantity

FROM

details

GROUP BY

PaymentMode;

	PaymentMode	AvgProfit	TotalQuantity
•	COD	18.3436	2456
	EMI	40.2000	589
	Credit Card	77.3742	672
	UPI	9.9275	1157
	Debit Card	18.2871	741

9) Sales Analysis by Category and Sub-Category

SELECT

Category,

`Sub-Category`,

SUM(Amount) AS TotalSales,

SUM(Profit) AS TotalProfit

FROM

details

WHERE

Quantity > 2

GROUP BY

Category, 'Sub-Category'

ORDER BY

TotalSales DESC;

	Category	Sub-Category	TotalSales	TotalProfit
•	Electronics	Printers	47924	6276
	Clothing	Saree	47254	3574
	Furniture	Bookcases	44934	4238
	Electronics	Phones	37182	1680
	Electronics	Electronic Games	32441	-309
	Furniture	Chairs	29478	1439
	et de	-	00000	2255

10) Aggregate Sales by Payment Mode

SELECT

PaymentMode,

SUM(Amount) AS TotalSales,

SUM(Profit) AS TotalProfit

FROM

details

WHERE

Quantity > 2

GROUP BY

PaymentMode

ORDER BY

TotalSales DESC;

	PaymentMode	TotalSales	TotalProfit
•	COD	121516	8945
	Credit Card	74293	11127
	EMI	72684	4429
	UPI	53689	1508
	Debit Card	36091	3096

11) Top Customers by Sales

SELECT

o.CustomerName,

SUM(d.Amount) AS TotalSales

FROM

orders o

JOIN

details d ON o.`Order ID` = d.`Order ID`

WHERE

d.Quantity > 2

GROUP BY

o.CustomerName

ORDER BY

TotalSales DESC

LIMIT 10;

	CustomerName	TotalSales
•	Madhav	9046
	Harivansh	8058
	Madan Mohan	7687
	Shiva	6300
	Vishakha	5955
	Lalita	5783

12) compare sales and profit across different states

SELECT

o.State,

SUM(d.Amount) AS TotalSales,

SUM(d.Profit) AS TotalProfit

FROM

orders o

JOIN

details d ON o. Order ID = d. Order ID

WHERE

d.Quantity > 2

GROUP BY

o.State

ORDER BY

TotalSales DESC;

	State	TotalSales	TotalProfit
•	Maharashtra	85198	6248
	Madhya Pradesh	69899	4167
	Uttar Pradesh	34309	3274
	Delhi	19308	1410
	Rajasthan	17653	-143
	Gujarat	16999	2095

13) Compare Total Sales for Each Category

```
SELECT
Category,
SUM(Amount) AS TotalSales
FROM
details
GROUP BY
Category
HAVING
TotalSales > (
SELECT AVG(TotalSales)
FROM (
SELECT SUM(Amount) AS TotalSales
FROM details
GROUP BY Category
) AS AvgSales
```

ORDER BY

)

TotalSales DESC;

	. — -		
Cate	gory	TotalSales	
▶ Electr	onics	166267	

14) Sales by City and Sub-Category

SELECT

o.City,

d.`Sub-Category`,

SUM(d.Amount) AS TotalSales

FROM

orders o

JOIN

details d ON o. Order ID = d. Order ID

WHERE

d.Quantity > 2

GROUP BY

o.City, d.`Sub-Category`

ORDER BY

TotalSales DESC;

	City	Sub-Category	TotalSales
•	Pune	Printers	9164
	Mumbai	Electronic Games	8444
	Mathura	Chairs	7844
	Indore	Printers	6867
	Pune	Bookcases	6797
	Indore	Electronic Games	6564
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