

SALES.PUBLIC

Settings

Open in Workspaces

Code Versions

1

--1)Which customers placed the most orders

2

select top 5 concat(C.FIRSTNAME,' ',C.LASTNAME) as fullname,F.CUSTOMERID , count(\*)as totalOrder

3

from DIMCUSTOMERdata C inner join FACT F

4

on C.CUSTOMERID=F.CUSTOMERID

5

group by C.FIRSTNAME,C.LASTNAME,F.CUSTOMERID

6

order by totalOrder DESC;

7

Results

Chart

	FULLNAME	CUSTOMERID	TOTALORDER	
1	Tony Thomas	965	68	
2	Gregory Thomas	360	67	
3	Frank Aguilar	341	67	
4	Shannon Garcia	891	67	
5	Sandra Wilson	869	67	

Query Details

...

Query duration

2.7s

Rows

5

Query ID

01bcebd0-0000-8af5-0...

Show more

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Code Versions

8

--2)What is the average customer spend per order?

9

SELECT

10

AVG(f.totalamount) AS avg\_spend\_per\_order

11

FROM

12

FACT f

13

JOIN

14

dimcustomerdata c ON f.customerid = c.customerid

15

Results

Chart

	AVG_SPEND_PER_ORDER	
1	450.12273653430649	

Query Details

...

Query duration

53ms

Rows

1

Query ID

01bcebd8-0000-8af5-0...

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16

--3)Determines how much customers typically spend.

17

SELECT

18

C.FIRSTNAME,

19

F.CUSTOMERID,

20

AVG(TOTALAMOUNT) AS AvgSpendPerCustomer

21

FROM FACT F

22

JOIN DIMCUSTOMERDATA C ON F.CUSTOMERID = C.CUSTOMERID

23

GROUP BY F.CUSTOMERID , C.FIRSTNAME

24

ORDER BY AvgSpendPerCustomer DESC;

25

Results

Chart

	FIRSTNAME	CUSTOMERID	AVGSPENDPERCUSTOMER	
1	Cory	223	557.22486141757042	
2	Bradley	129	544.66492734258713	
3	Rebecca	812	533.86348164050119	
4	Michael	732	531.17348494942660	
5	Kristen	581	526.54563803812943	

Query Details

...

Query duration

32ms

Rows

1K

Query ID

01bcebdb-0000-8af4-0...

Show more

27

SELECT

28

dc.FIRSTNAME,

29

COUNT(\*) AS OrderCount

30

FROM FACT f

31

JOIN DIMCUSTOMERDATA dc ON f.CUSTOMERID = dc.CUSTOMERID

32

GROUP BY f.CUSTOMERID,dc.FIRSTNAME

33

HAVING COUNT(\*) = 1;

34

Results

Chart

	FIRSTNAME	ORDERCOUNT	
Query produced no results			

Query Details

...

Query duration

1.3s

Rows

0

Query ID

01bcebdf-0000-8af5-0...

Show more

```
26 //4)Which customers have made only one purchase?
27 SELECT
28     dc.FIRSTNAME,
29     COUNT(*) AS OrderCount
30 FROM FACT f
31 JOIN DIMCUSTOMERDATA dc ON f.CUSTOMERID = dc.CUSTOMERID
32 GROUP BY f.CUSTOMERID,dc.FIRSTNAME
33 HAVING COUNT(*) = 1;
34
```

Results Chart

FIRSTNAME	ORDERCOUNT
Query produced no results	

Query Details

- Query duration: 1.3s
- Rows: 0
- Query ID: 01bcebfd-0000-8af5-0...
- Show more

```
34 //5)Who are the most loyal customers based on repeat purchases?
35
36 SELECT
37     dc.FIRSTNAME, COUNT(*) AS TotalOrders
38 FROM FACT f
39 JOIN DIMCUSTOMERDATA dc ON f.CUSTOMERID = dc.CUSTOMERID
40 GROUP BY dc.FIRSTNAME
41 HAVING COUNT(*) > 1
42 ORDER BY TotalOrders desc
43
44
```

Results Chart

	FIRSTNAME	# TOTALORDERS
1	Michael	1153
2	James	875
3	David	840
4	Jennifer	774
5	Robert	632

Query Details

- Query duration: 83ms
- Rows: 355
- Query ID: 01bcebe1-0000-8af5-0...
- Show more

```
34 //5)Who are the most loyal customers based on repeat purchases?
35
36 SELECT
37     dc.FIRSTNAME, COUNT(*) AS TotalOrders
38 FROM FACT f
39 JOIN DIMCUSTOMERDATA dc ON f.CUSTOMERID = dc.CUSTOMERID
40 join dimloyaltyinfo dl on dc.Loyaltyprogramid=dl.Loyaltyprogramid
41 where dl.Loyaltyprogramid=5
42 GROUP BY f.CUSTOMERID ,dc.FIRSTNAME
43 ORDER BY TotalOrders desc
44 limit 5
45
```

Results Chart

	FIRSTNAME	# TOTALORDERS
1	Sandra	67
2	Frank	67
3	Michael	64
4	Rachel	64
5	Michael	63

Query Details

- Query duration: 169ms
- Rows: 5
- Query ID: 01bcebeb-0000-8af5-0...
- Show more

```

47 --6) What are the top-selling products?
48
49 SELECT
50     DP.ProductName,
51     SUM(F.QUANTITYORDERDED) AS TotalQuantitySold
52 FROM
53     FACT F
54 JOIN
55     DIMPRODUCTDATA DP ON F.ProductID = DP.ProductID
56 GROUP BY
57     DP.ProductName
58 ORDER BY
59     TotalQuantitySold DESC
60 LIMIT 5;
61
62 --7) Which products are underperforming?

```

Results Chart

	PRODUCTNAME	TOTALQUANTITYSOLD
1	Jacket	8186
2	Wetsuit	6683
3	Suitcase	6673
4	Hair Dryer	6613
5	Dart Board	6299

Query Details

- Query duration: 3.6s
- Rows: 5
- Query ID: 01bcebfd-0000-8af5-0...
- Show more

```

61 --7) Which products are underperforming?
62
63 SELECT
64     DP.ProductName,
65     SUM(F.QUANTITYORDERDED) AS TotalQuantitySold
66 FROM
67     FACT F
68 JOIN
69     DIMPRODUCTDATA DP ON F.ProductID = DP.ProductID
70 GROUP BY
71     DP.ProductName
72 ORDER BY
73     TotalQuantitySold ASC
74 LIMIT 5;

```

Results Chart

	PRODUCTNAME	TOTALQUANTITYSOLD
1	Headphones	439
2	Washing Machine	577
3	Fan	774
4	Mattress	893
5	Hammock	932

Query Details

- Query duration: 138ms
- Rows: 5
- Query ID: 01bcebfd-0000-8af5-00...
- Show more

```

74 --8) What are the best-selling product categories?
75
76 SELECT
77     DP.CATEGORY,
78     SUM(F.QUANTITYORDERDED) AS TotalQuantitySold
79 FROM
80     FACT F
81 JOIN
82     DIMPRODUCTDATA DP ON F.ProductID = DP.ProductID
83 GROUP BY
84     DP.CATEGORY
85 ORDER BY
86     TotalQuantitySold DESC
87 LIMIT 1;

```

Results Chart

	CATEGORY	TOTALQUANTITYSOLD
1	Electronics	58932

Query Details

- Query duration: 122ms
- Rows: 1
- Query ID: 01bce05-0000-8af5-0...

```

89
90 --10) Which product category contributes most to revenue?
91 SELECT
92 DP.CATEGORY,
93 SUM (F. TOTALAMOUNT) AS TOTALREVENUE
94 FROM
95 FACT F
96 JOIN DIMPRODUCTDATA DP ON F.ProductID = DP.ProductID
97 GROUP BY
98 DP.CATEGORY
99 ORDER BY
100 TOTALREVENUE DESC
101 LIMIT 1;

```

	A CATEGORY	# TOTALREVENUE
1	Electronics	2518072.74531621792326

```

102 --11) Which store has the highest revenue?
103 SELECT
104 DS. STORENAME,
105 SUM (F. TOTALAMOUNT) AS TOTALREVENUE
106 FROM
107 FACT F
108 JOIN dimstoredata DS ON F.STOREID = DS.STOREID
109 GROUP BY
110 DS. STORENAME
111 ORDER BY
112 TOTALREVENUE DESC
113 LIMIT 1;
114
115 --12) What is the average transaction value per store?

```

	A STORENAME	# TOTALREVENUE
1	The Chic Quest	420968.73288672652274

Query Details ...
  
Query duration 406ms
  
Rows 1
  
Query ID 01bcec18-0000-8af5-0...
  
Show more

```

115 --12) What is the average transaction value per store?
116 SELECT
117 DS. STORENAME,
118 AVG (F. TOTALAMOUNT) average_transaction
119 FROM
120 FACT F
121 JOIN dimstoredata DS ON F.STOREID = DS.STOREID
122 GROUP BY
123 DS. STORENAME
124 ORDER BY
125 average_transaction DESC
126 LIMIT 1;

```

	A STORENAME	# AVERAGE_TRANSACTION
1	The Purely Merchant	473.80849186988175

```

127
128 --13) Which region generates the most revenue?
129 SELECT
130 DS.REGION,
131 SUM (F. TOTALAMOUNT) TOTALREVENUE
132 FROM
133 FACT F
134 JOIN dimstoredata DS ON F.STOREID = DS.STOREID
135 GROUP BY
136 DS.REGION
137 ORDER BY
138 TOTALREVENUE DESC
139 LIMIT 1;

```

Results Chart

	REGION	TOTALREVENUE
1	North	6431829.15094446592412

```

141 --14)What is the profit margin per region?
142 SELECT
143 DS.REGION,
144 SUM (F. TOTALAMOUNT-F.SHIPPINGCOST) profit_margin
145 FROM
146 FACT F
147 JOIN dimstoredata DS ON F.STOREID = DS.STOREID
148 GROUP BY
149 DS.REGION
150 ORDER BY
151 profit_margin DESC
152 LIMIT 4;

```

Results Chart

	REGION	PROFIT_MARGIN
1	North	5640483.7517226115696775
2	East	5283108.1050453242008957
3	West	4161807.8046130562825224
4	South	3731874.1645355483137925

```

154 --15)Monthly revenue trends over the last year
155 SELECT
156 DD. YEAR,
157 DD. MONTH,
158 SUM(F. TOTALAMOUNT) AS MonthlyRevenue
159 FROM FACT F
160 JOIN DIMDATE DD ON F.DATEID = DD.DATEID
161 WHERE
162 DD. YEAR = 2024
163 GROUP BY
164 DD. YEAR,
165 DD. MONTH
166 ORDER BY
167 DD. MONTH;
168 --16)Year-over-Year Sales Growth

```

Results Chart

	YEAR	MONTH	MONTHLYREVENUE
1	2024	1	181104.74458264309442
2	2024	2	155330.68399219274780
3	2024	3	179125.84581944352517
4	2024	4	159672.39595151037965
5	2024	5	167348.23975519632383
6	2024	6	153021.02642401351885
7	2024	7	152700.03419525916830

Query Details

Query duration 1.0s

Rows Z

Query ID 01bcec28-0000-8af5-0...

Show more

YEAR #

100% filled

```
--17) Hourly sales distribution ?
--can't be calculated becuse of lake of data columns
--18) Profitability by product?
--can't be calculated becuse of lake of data columns
--19) Profit margin comparison between categories ?
--can't be calculated becuse of lake of data columns
```

```
196 --20) Age-wise purchase patterns
197 SELECT
198     case
199     when DATEDIFF ('year', DC.DOB, CURRENT_DATE()) BETWEEN 0 AND 18 THEN '0-18'
200     WHEN DATEDIFF ('year', DC.DOB, CURRENT_DATE()) BETWEEN 19 AND 25 THEN '19-25'
201     WHEN DATEDIFF ('year', DC.DOB, CURRENT_DATE()) BETWEEN 26 AND 45 THEN '26-45'
202     WHEN DATEDIFF ('year', DC.DOB, CURRENT_DATE()) BETWEEN 46 AND 60 THEN '46-40'
203     WHEN DATEDIFF ('year', DC.DOB, CURRENT_DATE()) > 60 THEN '60+' ELSE 'UNKNOWN'
204     END AS AgeGroup,
205     COUNT (F.OrderID) AS TotalOrders,
206     SUM (F. TOTALAMOUNT) AS TOTALREVENUE
207 FROM FACT F
208 JOIN DIMCUSTOMERDATA DC ON F.CustomerID = DC.CustomerID
209 GROUP BY
210     AgeGroup
```

Results Chart

	AGEGROUP	# TOTALORDERS	# TOTALREVENUE
1	0-18	15799	7103988.54766069677783
2	19-25	6539	2953739.74091477436755
3	26-45	16632	7475191.25968317941198
4	46-40	8687	3918129.58402025938786

```
213 --21. How does the yearly revenue trend compare across different years?
214 SELECT
215     DD.YEAR,
216     SUM(F.TOTALAMOUNT) AS YearlyRevenue
217 FROM FACT F
218 JOIN DIMDATE DD ON F.DATEID = DD.DATEID
219 GROUP BY DD.YEAR
220 order BY DD.YEAR
221 --22. What is the peak sales hour in a tyoical day?
```

Results Chart

	# YEAR	# YEARLYREVENUE
1	2014	2038234.14454108630287
2	2015	2042731.95440325523147
3	2016	2046147.02035117216021
4	2017	2033833.94590551106841
5	2018	1996634.44598978320121
6	2019	2080212.98349031928106

```
221 --22. What is the peak sales hour in a typical day?
222 --can't be calculated
223 --23. Whichstore has the highest number of transactions per day?
224 SELECT
225     DD.DATE,
226     DS.STORENAME,
227     COUNT (F.ORDERID) AS TransactionNumber
228 FROM FACT F
229 join dimstoredata DS ON F.STOREID = DS.STOREID
230 join DIMDATE DD ON F.DATEID = DD.DATEID
231 GROUP BY
232     DD.DATE,
233     DS.STORENAME
234 ORDER BY
235     TransactionNumber DESC
236 LIMIT 1;
```

Results Chart

	DATE	STORENAME	# TRANSACTIONNUMBER
1	2016-12-19	The Stylish Deals	5

Query Details  
Query duration 211ms  
Rows 1  
Query ID 01bcec83-0000-8c5b-0...

```
237 --24. What is the total discount amount given to customers in the last quarter?
238 SELECT
239     SUM(F.DISCOUNTAMOUNT) AS TotalDiscount
240 from FACT F
241 join DIMDATE DD ON F.DATEID = DD.DATEID
242 WHERE
243     DD.year = 2024 --(SELECT MAX(Year) FROM DIMDATE) for dynamic latest year
244     AND DD.QUARTER = (SELECT MAX(QUARTER) FROM DIMDATE WHERE YEAR = 2024);
245 --subquery for dynamic latest quarter]
246 --25. Which product has the highest return rate?
```

Results Chart

	# TOTALDISCOUNT
1	null

Query Details  
Query duration 31ms  
Rows 1  
Query ID 01bcec96-0000-8c5a-0...  
Show more

```
--25. Which product has the highest return rate?
--can't be calculated
```

```
249 --26. How does the revenue vary across weekdays versus weekends?
250 select d.isweekend,
251     sum(f.totalAmount)
252 from fact f
253 join dimDate d on f.dateid=d.dateid
254 group by d.isweekend
255
```

Results Chart

	01 ISWEEKEND	# SUM(F.TOTALAMOUNT)
1	FALSE	15388883.51789068764661
2	TRUE	6062165.61438822229861

Query Details  
Query duration 2.8s  
Rows 2  
Query ID 01bceca5-0000-8c5a-0...  
Show more

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Open in Workspaces Code Versions

```

256 --27. What is the best-selling product for each region?
257 WITH RegionalProduct AS (
258     SELECT
259         DS.REGION,
260         DP.PRODUCTNAME,
261         SUM(F.QUANTITYORDERED) AS TotalQuantitySold,
262         ROW_NUMBER() OVER (
263             PARTITION BY DS.REGION
264             ORDER BY SUM(F.QUANTITYORDERED) DESC
265         ) AS rn
266     FROM FACT F
267     JOIN DIMPRODUCTDATA DP ON F.ProductID = DP.ProductID
268     JOIN DIMSTOREDATA DS ON F.STOREID = DS.STOREID
269     GROUP BY DS.REGION, DP.PRODUCTNAME
270 )
271 SELECT
272     REGION,
273     PRODUCTNAME,
274     TotalQuantitySold
275 FROM RegionalProduct
276 WHERE rn = 1
277 ORDER BY REGION;
278
279 --28. Which customer segment generates the highest revenue?

```

Results Chart

	REGION	PRODUCTNAME	TOTALQUANTITYSOLD
1	East	Jacket	2369
2	North	Jacket	2437
3	South	Jacket	1408
4	West	Jacket	1972

Query Details

Query duration 248ms

Rows 4

Query ID 01bcecd-0000-8c5b-0...

```

278
279 --28. Which customer segment generates the highest revenue?
280 SELECT
281     DLI.PROGRAMNAME,
282     SUM(F.TOTALAMOUNT) AS TOTALREVENUE
283 FROM FACT F
284 JOIN DIMCUSTOMERDATA DC ON F.CustomerID = DC.CustomerID
285 JOIN DIMLOYALTYINFO DLI ON DC.LoyaltyProgramID = DLI.LoyaltyProgramID
286 GROUP BY
287     DLI.PROGRAMNAME
288 ORDER BY
289     TOTALREVENUE DESC;
290
291 --29. What is the profit-to-revenue ratio for different product categories?
292 --can't be calculated
293
294 --30. Which product saw the highest percentage increase in sales compared to the previous year

```

Results Chart

	PROGRAMNAME	TOTALREVENUE
1	Diamond VIP	4788776.59669616579330
2	Bronze Rewards	4589967.08838019946978
3	Platinum Elite	4273402.27855286614160
4	Gold Club	4039095.47100852136814

Query Details

Query duration 1.9s

Rows 5

Query ID 01bcecd7-0000-8c5b-0...



```
-- 30) Which product saw the highest percentage increase in sales compared to the previous year?

WITH ProductYear AS (
SELECT DP.PRODUCTNAME,
DD.Year,
SUM(FO.QUANTITYORDERED) AS YearlyQuantity
from FACT FO
JOIN DIMDATE DO ON FO.DATEID= DO.DATEID
JOIN DIMPRODUCTDATA DP ON FO.ProductID = DP.ProductID
GROUP BY
DP.PRODUCTNAME,
DD.Year ),
ProductPreviousYear AS (
SELECT
PRODUCTNAME,
YEAR,
YearlyQuantity,
LAG (YearlyQuantity, 1) OVER (PARTITION BY PRODUCTNAME ORDER BY YEAR) AS PreviousYearQuantity FROM
ProductYear
)
SELECT
YEAR,
PRODUCTNAME,
YearlyQuantity,
PreviousYearQuantity,
(YearlyQuantity - PreviousYearQuantity) *100.0/ (PreviousYearQuantity) AS PercentageIncrease
from ProductPreviousYear
WHERE PreviousYearQuantity IS NOT NULL AND PreviousYearQuantity != 0
ORDER BY PercentageIncrease DESC;
```

Results

Chart

Search Filter Copy Refresh

YEAR	PRODUCTNAME	YEARLYQUANTITY	PREVIOUSYEARQUANTITY	PERCENTAGEINCREASE
2016	Mattress	147	38	286.842105
2018	Showerhead	157	52	201.923077
2018	Headphones	104	37	181.081081
2015	Headphones	58	22	163.636364
2015	Smartphone	150	59	154.237288

Query Details

Query duration 2.2s

Rows 1.5K

Query ID 01bd0864-0000-8c59-...

Show more

Help