

Business Question

Customer & Order Fundamentals

Question 01 : How many total orders has UrbanCart received so far?

Answer : Total Order Number is 1200

SQL Query :

The screenshot shows a SQL IDE interface with a dark theme. The 'Query' tab is active, displaying the following SQL code:

```
1  -- Question 01
2  Select count (distinct order_id) as TotalOrders
3  from public."FactOrders"
```

Below the query editor, the 'Data Output' tab is active, showing the results of the query. The results are displayed in a table with two columns: 'totalorders' (bigint) and a lock icon. The first row shows the value 1200.

	totalorders bigint
1	1200

Business Insight : UrbanCart has processed a total of 1,200 orders, indicating a healthy level of customer activity on the platform. This order volume suggests consistent demand across products and cities. With this scale, UrbanCart has a strong foundation to optimize operations, marketing strategies, and customer retention initiatives.

Question 02 : How many unique customers have placed at least one order?

Answer : Total unique customer number is 100

SQL Query :

The screenshot shows a SQL IDE interface with a dark theme. The 'Query' tab is active, displaying the following SQL code:

```
5  -- Question 02
6  Select count (distinct customer_id) as TotalCustomers
7  from public."FactOrders"
```

Below the query editor, the 'Data Output' tab is active, showing the results of the query. The results are displayed in a table with two columns: 'totalcustomers' (bigint) and a lock icon. The first row shows the value 100.

	totalcustomers bigint
1	100

Business Insight: The platform has 100 unique customers who have placed at least one order, indicating an active and engaged customer base. When compared with the total number of orders, this suggests that several customers are making repeat purchases. UrbanCart can further grow revenue by focusing on customer retention and repeat-order strategies.

Question 03 : Which cities generate the highest number of orders?

Answer : Barishal city and highest order number is 173

SQL Query :

```
9  -- Question 03
10 Select c.city, count(o.order_id) as TotalOrders
11 From public."FactOrders" o
12 Join "DimCustomers" c
13 on o.customer_id = c.customer_id
14 group by c.city
15 order by TotalOrders Desc
16 Limit 1;
17
```

Data Output

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SQL

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Page No:

	city	totalorders
	text	bigint
1	Barishal	173

Business Insight : The analysis shows that Barishal generates the highest number of orders, with a total of 173 orders, making it UrbanCart's top-performing city by order volume. This indicates strong customer demand and engagement in this location. UrbanCart can prioritize Barishal for targeted marketing campaigns, faster delivery services, and inventory planning to further capitalize on this demand.

Question 04 : What percentage of customers have placed more than one order?

Answer : 100%

SQL Query :

```
18 -- Question 04
19 WITH CustomerOrders AS (
20     SELECT customer_id, COUNT(order_id) AS OrderCount
21     FROM "FactOrders"
22     GROUP BY customer_id
23 )
24 SELECT
25     ROUND(
26         100.0 * SUM(CASE WHEN OrderCount > 1 THEN 1 ELSE 0 END) / COUNT(*),
27         2
28     ) AS RepeatCustomerPercentage
29 FROM CustomerOrders;
```

Data Output Messages Graph Visualiser X Notifications

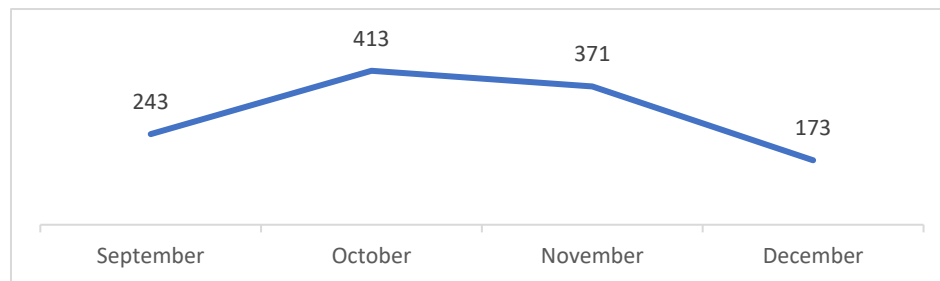
Showing rows: 1 to 1 Page No: 1

	repeatcustomerpercentage	numeric
1		100.00

Business Insight: The analysis shows that **100% of customers have placed more than one order**, indicating extremely strong repeat purchasing behavior on the platform. This suggests a high level of customer satisfaction and loyalty among UrbanCart users. UrbanCart can capitalize on this by strengthening loyalty programs and personalized offers to further increase lifetime customer value.

Question 05 : What is the monthly trend of total orders over time?

Answer :



SQL Query :

```
31 -- Question 05
32 SELECT
33     DATE_TRUNC('month', order_date::date) AS OrderMonth,
34     COUNT(order_id) AS TotalOrders
35 FROM "FactOrders"
36 GROUP BY DATE_TRUNC('month', order_date::date)
37 ORDER BY OrderMonth;
```

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Page No:

	ordermonth timestamp with time zone	totalorders bigint
1	2025-09-01 00:00:00+00	243
2	2025-10-01 00:00:00+00	413
3	2025-11-01 00:00:00+00	371
4	2025-12-01 00:00:00+00	173

Business Insight: This trend shows whether UrbanCart's order volume is increasing or decreasing over time. It helps analyze seasonality, campaign impact, and overall business growth patterns.

Revenue & Product Performance

Question 06 : What is the total revenue generated by UrbanCart?

Answer : Total revenue is 22,45,122 taka











SQL Query :


```
39  -- Question 06
40  SELECT
41      SUM(foi.quantity * p.unit_price) AS TotalRevenue
42  FROM "FactOrderItems" foi
43  JOIN "DimProducts" p
44      ON foi.product_id = p.product_id;
45
```


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Showing rows: 1 to 1  Page No:

	totalrevenue numeric 
1	2245122

Business Insight: UrbanCart has generated a total revenue of 2,245,122, reflecting strong overall sales performance across its product portfolio. This level of revenue indicates healthy customer demand and effective order conversion. With this revenue base, UrbanCart is well positioned to focus on scaling high-performing products and optimizing pricing and promotional strategies.

Question 07 : Which product categories contribute the most to total revenue?

Answer : Fashion Category 5,13,550 taka

SQL Query :

```
46  -- Question 07
47  SELECT
48      p.category,
49      SUM(foi.quantity * p.unit_price) AS CategoryRevenue
50  FROM "FactOrderItems" foi
51  JOIN "DimProducts" p
52      ON foi.product_id = p.product_id
53  GROUP BY p.category
54  ORDER BY CategoryRevenue DESC
55  limit 1;
56
```

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	category text	categoryrevenue numeric
1	Fashion	513550

Business Insight: This analysis shows which product categories generate the highest revenue. UrbanCart can focus more on these categories to make promotions and inventory planning more effective.

Question 08 : Which individual products generate the highest revenue?

Answer : Power Bank 10000mAh 3,04,000 taka

SQL Query :

```
57  -- Question 08
58  SELECT
59      p.product_name,
60      SUM(foi.quantity * p.unit_price) AS ProductRevenue
61  FROM "FactOrderItems" foi
62  JOIN "DimProducts" p
63      ON foi.product_id = p.product_id
64  GROUP BY p.product_name
65  ORDER BY ProductRevenue DESC
66  LIMIT 1;
```

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Showing rows: 1 to 1  Page No:

	product_name text	productrevenue numeric
1	Power Bank 10000m...	304000

Business Insight :

The analysis shows that Power Bank 10000mAh is the highest revenue-generating product, contributing 304,000 in total revenue. This indicates strong demand and high customer willingness to spend on this product. UrbanCart should prioritize this item for inventory planning, premium placement, and cross-selling with complementary products to maximize revenue.

Question 09 : What is the Average Order Value (AOV) and Average Basket Size?

Answer : Average order value 1870.94 and Average Basket Size 9.96

SQL Query :

```
68 -- Question 09
69 WITH OrderSummary AS (
70     SELECT
71         o.order_id,
72         SUM(foi.quantity * p.unit_price) AS OrderValue,
73         SUM(foi.quantity) AS TotalItems
74     FROM "FactOrders" o
75     JOIN "FactOrderItems" foi
76         ON o.order_id = foi.order_id
77     JOIN "DimProducts" p
78         ON foi.product_id = p.product_id
79     GROUP BY o.order_id
80 )
81 SELECT
82     ROUND(AVG(OrderValue), 2) AS AverageOrderValue,
83     ROUND(AVG(TotalItems), 2) AS AverageBasketSize
84 FROM OrderSummary;
```

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Showing rows: 1 to 1 Page No:

	averageordervalue numeric	averagebasketsize numeric
1	1870.94	9.96

Business Insight:

The average order value on UrbanCart is 1,870.94, while customers purchase an average of 9.96 items per order, indicating healthy basket sizes. This suggests that customers are willing to buy multiple items in a single transaction. UrbanCart can further increase revenue by introducing bundle offers and volume-based discounts to encourage higher-value purchases.

Question 10 : Which products are at risk of stock-out due to high sales volume and low inventory?

Answer :

product_name	totalsold	stock
Power Bank 10000mAh	320	90
Wallet (Men)	281	150
Horlicks 500g	272	180
Ladies Bag	237	150

SQL Query :

```
86  -- Question 10
87  SELECT
88      p.product_name,
89      SUM(foi.quantity) AS TotalSold,
90      p.stock
91  FROM "FactOrderItems" foi
92  JOIN "DimProducts" p
93      ON foi.product_id = p.product_id
94  GROUP BY p.product_name, p.stock
95  HAVING p.stock < 200
96  ORDER BY TotalSold DESC;
97
```

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	product_name text	totalsold numeric	stock bigint
1	Power Bank 10000mAh	320	90
2	Wallet (Men)	281	150
3	Horlicks 500g	272	180
4	Ladies Bag	237	150

Business Insight:

The analysis highlights several high-selling products, such as Power Bank 10000mAh, Wallet (Men), and Horlicks 500g, that currently have relatively low stock levels. These products are at risk of stock-out due to strong sales demand compared to available inventory. UrbanCart should prioritize restocking these items to avoid lost sales and maintain customer satisfaction.

Customer Behavior & Segmentation

Question 11 : Which customers contribute the highest total revenue?

Answer :

customer_id	full_name	totalrevenue
70	Raisa	42516

SQL Query :

```
101 -- Question 11
102 SELECT
103     c.customer_id,
104     c.full_name,
105     SUM(foi.quantity * p.unit_price) AS TotalRevenue
106 FROM "FactOrders" o
107 JOIN "DimCustomers" c
108     ON o.customer_id = c.customer_id
109 JOIN "FactOrderItems" foi
110     ON o.order_id = foi.order_id
111 JOIN "DimProducts" p
112     ON foi.product_id = p.product_id
113 GROUP BY c.customer_id, c.full_name
114 ORDER BY TotalRevenue DESC
115 LIMIT 1;
116
```

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Showing rows: 1 to 1 Page No: 1

	customer_id [PK] bigint	full_name text	totalrevenue numeric
1	70	Raisa	42516

Business Insight:

The analysis shows that Raisa is the highest revenue-contributing customer, generating a total of 42,516 in revenue. This indicates strong purchasing power and high engagement from this customer. UrbanCart should prioritize such high-value customers with personalized offers, loyalty rewards, and exclusive promotions to maximize lifetime value.

Question 12 : What is the average number of products purchased per order?

Answer : Average Products per order 9.96

SQL Query :

```
117 -- Question 12
118 WITH OrderItemsCount AS (
119     SELECT
120         order_id,
121         SUM(quantity) AS TotalItems
122     FROM "FactOrderItems"
123     GROUP BY order_id
124 )
125 SELECT
126     ROUND(AVG(TotalItems), 2) AS AvgProductsPerOrder
127 FROM OrderItemsCount;
```

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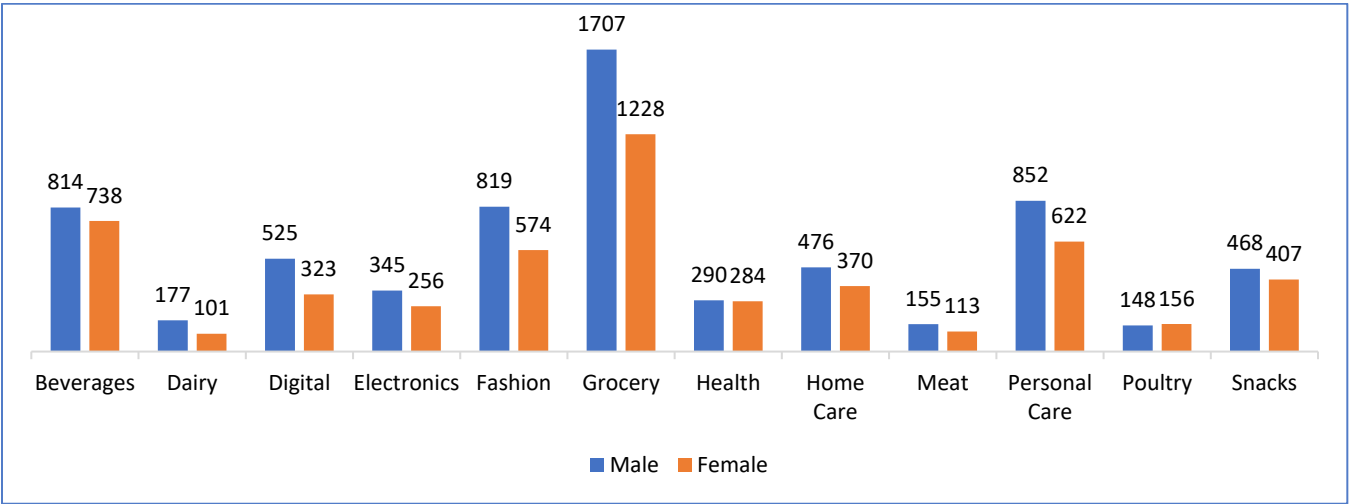
	avgproductsperorder numeric	
1	9.96	

Business Insight:

The analysis shows that customers purchase an average of 9.96 products per order, indicating strong multi-item buying behavior. This suggests that shoppers are comfortable adding multiple products to their carts in a single transaction. UrbanCart can further increase order value by promoting bundles, add-on recommendations, and volume-based discounts.

Question 13 : Do male and female customers show different purchasing patterns by category?

Answer : Gender wise purchasing pattern is shown below



SQL Query :

```
129 -- Question 13
130 SELECT
131     c."Gender",
132     p.category,
133     SUM(foi.quantity) AS TotalQuantityPurchased
134 FROM "FactOrders" o
135 JOIN "DimCustomers" c
136     ON o.customer_id = c.customer_id
137 JOIN "FactOrderItems" foi
138     ON o.order_id = foi.order_id
139 JOIN "DimProducts" p
140     ON foi.product_id = p.product_id
141 GROUP BY c."Gender", p.category
142 ORDER BY c."Gender", TotalQuantityPurchased DESC;
```

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	Gender text	category text	totalquantitypurchased numeric
1	Female	Grocery	1228
2	Female	Beverages	738
3	Female	Personal Ca...	622

Business Insight: This analysis highlights clear differences in category-wise purchasing behavior between male and female customers. Male customers dominate some categories, while female

customers are more active in others. These insights enable UrbanCart to run gender-specific campaigns, improve personalization, and increase conversion rates more efficiently.

Question 14 : Which cities have the highest average order value (AOV)?

Answer : Rajshahi and average order value 2010.42 taka

SQL Query :

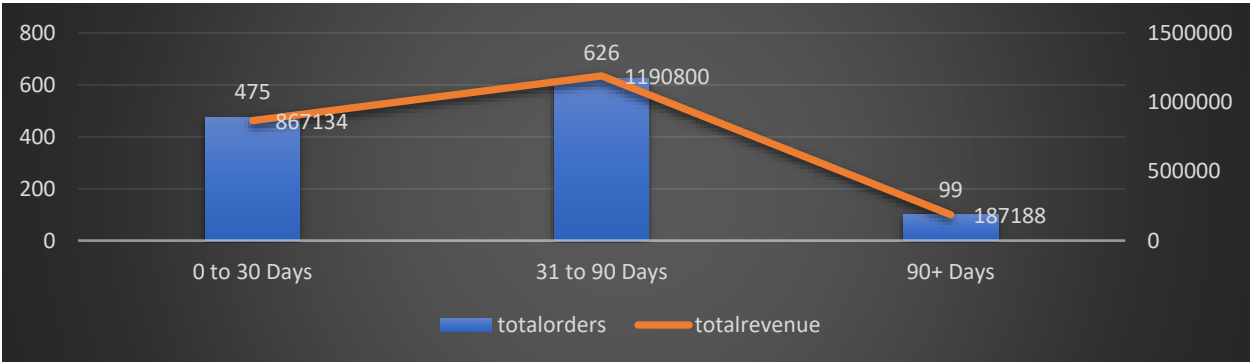
```
144 -- Question 14
145 WITH OrderValue AS (
146     SELECT
147         o.order_id,
148         c.city,
149         SUM(foi.quantity * p.unit_price) AS OrderAmount
150     FROM "FactOrders" o
151     JOIN "DimCustomers" c
152         ON o.customer_id = c.customer_id
153     JOIN "FactOrderItems" foi
154         ON o.order_id = foi.order_id
155     JOIN "DimProducts" p
156         ON foi.product_id = p.product_id
157     GROUP BY o.order_id, c.city
158 )
159 SELECT
160     city,
161     ROUND(AVG(OrderAmount), 2) AS AverageOrderValue
162 FROM OrderValue
163 GROUP BY city
164 ORDER BY AverageOrderValue DESC
165 Limit 1;
```

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Business Insight: This analysis shows that customers from Rajshahi spend the most on average, with an average order value of 2010.42, indicating it is a premium market for UrbanCart. By introducing fast delivery, premium product offerings, and targeted special deals in this city, UrbanCart can further increase both average order value and total revenue.

Question 15 : How does customer purchasing behavior change over time since account creation?

Answer :



SQL Query :

```
167 -- Question 15
168 SELECT
169     CASE
170         WHEN (o.order_date::date - c.created_at::date) <= 30 THEN '0-30 days'
171         WHEN (o.order_date::date - c.created_at::date) <= 90 THEN '31-90 days'
172         ELSE '90+ days'
173     END AS CustomerAgeGroup,
174     COUNT(DISTINCT o.order_id) AS TotalOrders,
175     ROUND(SUM(foi.quantity * p.unit_price), 2) AS TotalRevenue
176 FROM "FactOrders" o
177 JOIN "DimCustomers" c
178     ON o.customer_id = c.customer_id
179 JOIN "FactOrderItems" foi
180     ON o.order_id = foi.order_id
181 JOIN "DimProducts" p
182     ON foi.product_id = p.product_id
183 GROUP BY CustomerAgeGroup
184 ORDER BY CustomerAgeGroup;
```

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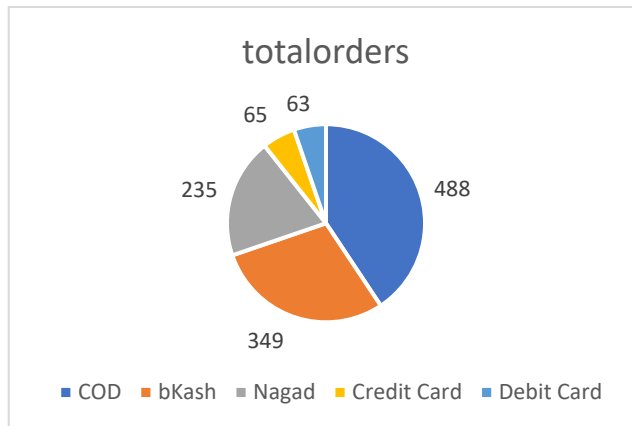
customeragegroup	totalorders	totalrevenue
text	bigint	numeric

Business Insight: This analysis illustrates how purchasing behavior changes between new and existing customers over time. The chart shows that order volume and revenue peak in the mid lifecycle (31–90 days) and then drop sharply after 90 days. If purchasing declines over time, UrbanCart should launch re-engagement campaigns or retention offers to prevent customer churn and sustain revenue.

Payment & Order Flow Insight

Question 16 : Which payment methods are used most frequently?

Answer :



SQL Query :

```
186 -- Payment & Order Flow Insights
187 -- Question 16
188 SELECT
189     "method",
190     COUNT(order_id) AS TotalOrders
191 FROM "FactPayment"
192 GROUP BY "method"
193 ORDER BY TotalOrders DESC;
```

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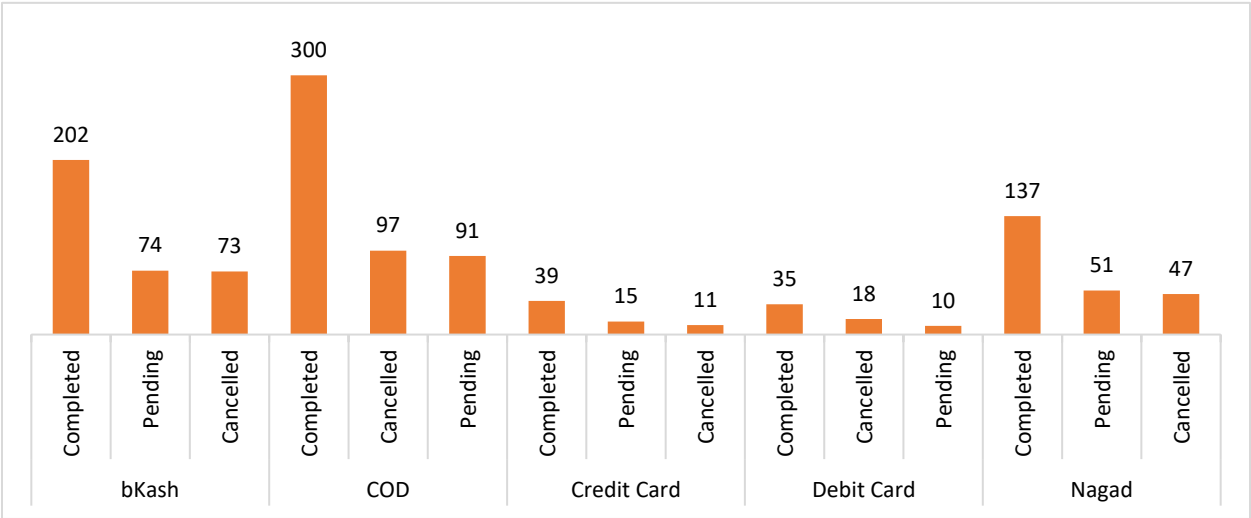
Showing rows: 1 to 5 Page No:

	method text	totalorders bigint
1	COD	488
2	bKash	349
3	Nagad	235
4	Credit Ca...	65
5	Debit Card	63

Business Insight: Cash on Delivery (COD) is the most frequently used payment method, followed by bKash and Nagad, indicating a strong customer preference for cash and mobile wallet payments. Credit and debit card usage is comparatively low, suggesting limited adoption of card-based transactions. UrbanCart should prioritize COD and mobile payments while using incentives to increase card payment adoption.

Question 17 : Is there any relationship between payment method and order status?

Answer :



SQL Query :

```
195 -- Question 17
196 SELECT
197     p.method,
198     o.status,
199     COUNT(o.order_id) AS TotalOrders
200 FROM "FactOrders" o
201 JOIN "FactPayment" p
202     ON o.order_id = p.order_id
203 GROUP BY p.method, o.status
204 ORDER BY p.method, TotalOrders DESC;
```

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Showing rows: 1 to 15

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	method text	status text	totalorders bigint
1	bKash	Comple...	202
2	bKash	Pending	74
3	bKash	Cancell...	73
4	COD	Comple...	300
5	COD	Cancell...	97
6	COD	Pending	91

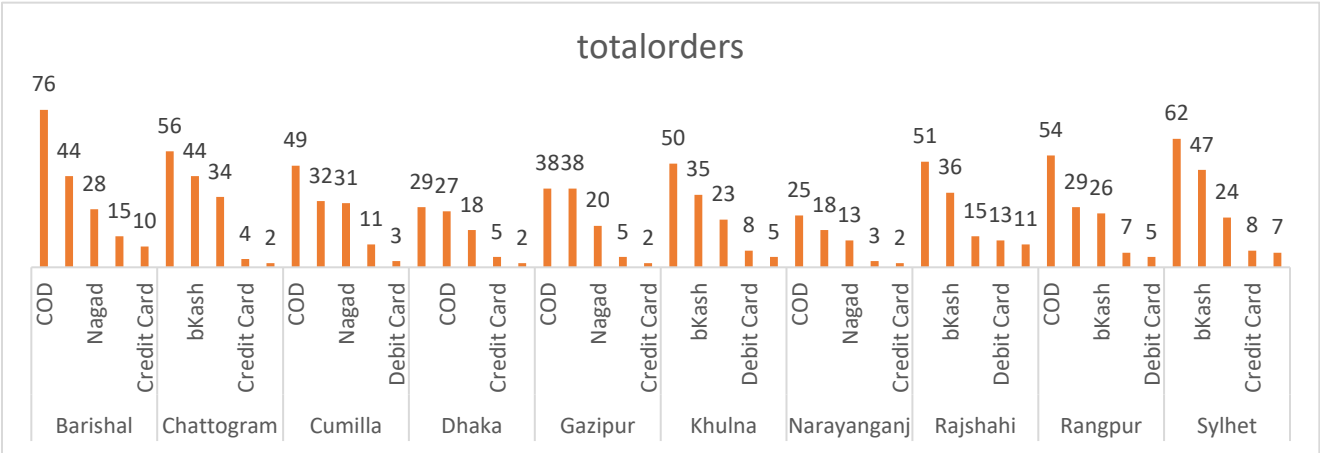
Total rows: 15Query complete 00:00:00.342

Business Insight : The results show that COD has the highest number of completed orders, but it also records a relatively high number of cancelled and pending orders compared to other payment methods. In contrast, bKash demonstrates a more balanced distribution with a higher

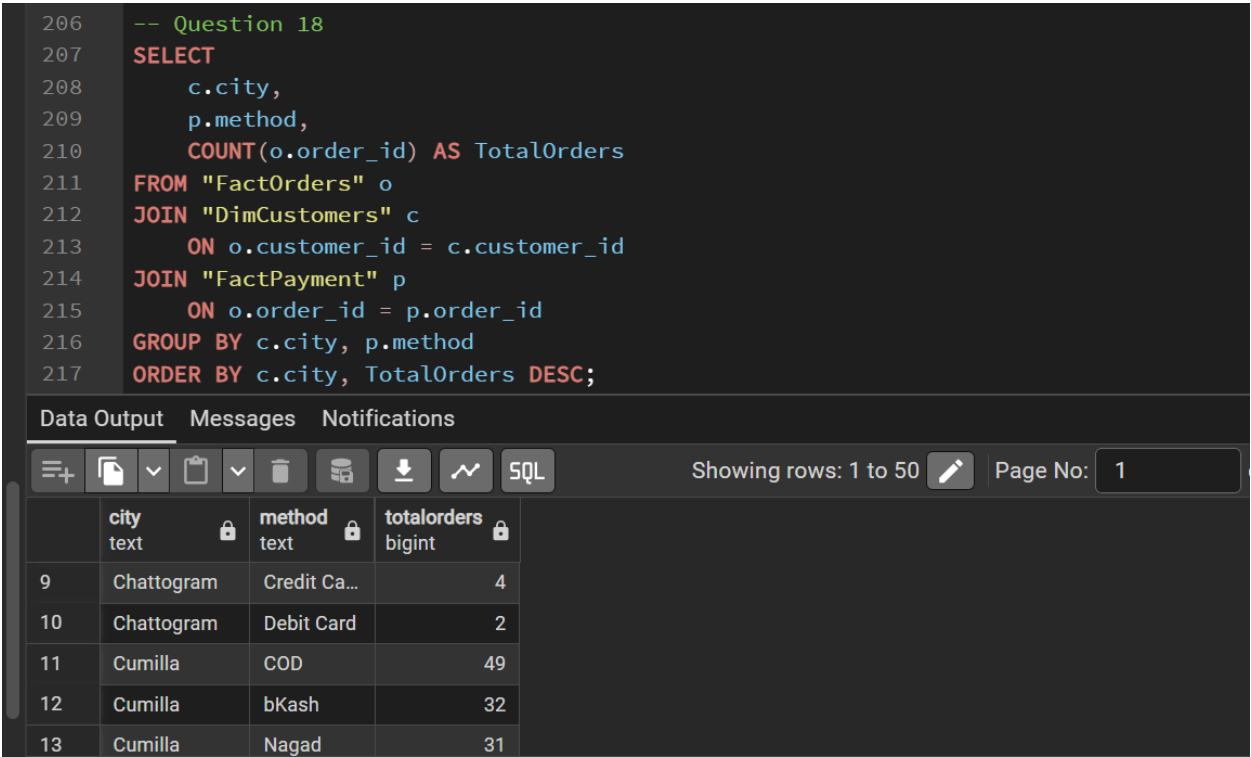
completion rate and fewer cancellations. This suggests that encouraging digital payments like bKash could help reduce order cancellations and improve overall order completion efficiency.

Question 18 : Do certain cities prefer specific payment methods?

Answer :



SQL Query :



Business Insight : The chart shows that **Cash on Delivery (COD)** is the most preferred payment method across almost all cities, consistently generating the highest number of orders. Mobile wallet payments such as **bKash** and **Nagad** also show strong adoption but vary by city, indicating localized preferences. UrbanCart can improve checkout efficiency by prioritizing COD while tailoring city-specific promotions for popular digital payment methods.

Question 19 : Are higher-value orders associated with specific payment methods?

Answer : Yes, higher-value orders are primarily associated with **Nagad**, as it has the highest average order value among all payment methods.

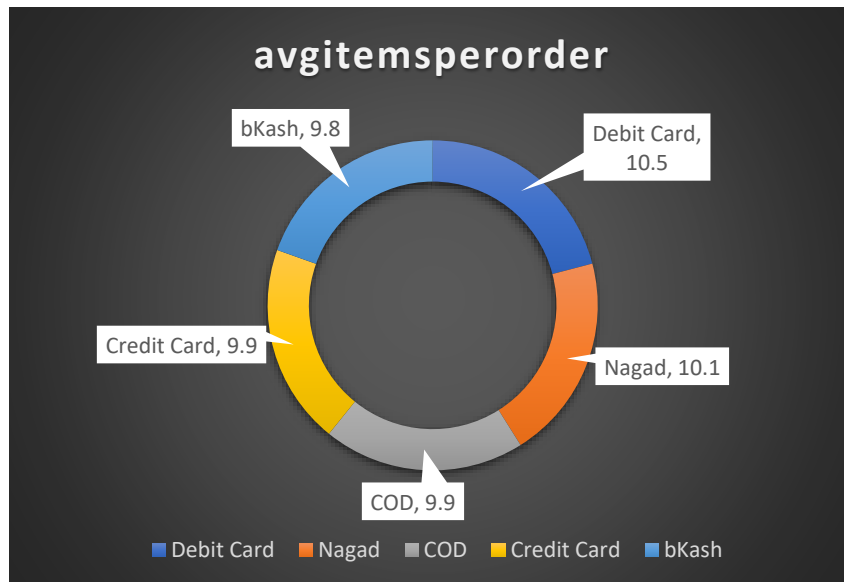
SQL Query :

```
206 -- Question 19
207 WITH OrderValue AS (
208     SELECT
209         o.order_id,
210         p.method,
211         SUM(foi.quantity * d.unit_price) AS OrderAmount
212     FROM "FactOrders" o
213     JOIN "FactPayment" p
214         ON o.order_id = p.order_id
215     JOIN "FactOrderItems" foi
216         ON o.order_id = foi.order_id
217     JOIN "DimProducts" d
218         ON foi.product_id = d.product_id
219     GROUP BY o.order_id, p.method
220 )
221 SELECT
222     method,
223     ROUND(AVG(OrderAmount), 2) AS AvgOrderValue
224 FROM OrderValue
225 GROUP BY method
226 ORDER BY AvgOrderValue DESC
227 limit 1;
```

Business Insight : Customers using Nagad and credit cards tend to place higher-value orders, indicating stronger spending intent in these payment channels. UrbanCart can maximize revenue by promoting these payment methods through exclusive discounts or cashback offers. Lower-value COD orders suggest an opportunity to encourage digital payments for higher basket sizes.

Question 20 : What is the average number of items per order by payment method?

Answer :



SQL Query :

```
243 -- Question 20
244 WITH OrderItems AS (
245     SELECT
246         o.order_id,
247         p.method,
248         SUM(foi.quantity) AS TotalItems
249     FROM "FactOrders" o
250     JOIN "FactPayment" p
251         ON o.order_id = p.order_id
252     JOIN "FactOrderItems" foi
253         ON o.order_id = foi.order_id
254     GROUP BY o.order_id, p.method
255 )
256 SELECT
257     method,
258     ROUND(AVG(TotalItems), 2) AS AvgItemsPerOrder
259 FROM OrderItems
260 GROUP BY method
261 ORDER BY AvgItemsPerOrder DESC;
```

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method	avgitemsperorder
--------	------------------

Business Insight : The chart indicates that Debit Card and Nagad users purchase slightly more items per order compared to other payment methods. COD, Credit Card, and bKash show similar but marginally lower average basket sizes. UrbanCart can increase overall basket size by promoting bundle offers or incentives specifically targeted at high-performing payment methods like Debit Card and Nagad.

Advanced Product & Basket Analysis

Question 21 : Which products are most frequently ordered together?

Answer :

product1	product2	timesorderedtogether
Potato 1kg	Peanut 500g	22

SQL Query :

```
264 -- Question 21
265 SELECT
266     p1.product_name AS Product1,
267     p2.product_name AS Product2,
268     COUNT(*) AS TimesOrderedTogether
269 FROM "FactOrderItems" foi1
270 JOIN "FactOrderItems" foi2
271     ON foi1.order_id = foi2.order_id
272     AND foi1.product_id < foi2.product_id
273 JOIN "DimProducts" p1
274     ON foi1.product_id = p1.product_id
275 JOIN "DimProducts" p2
276     ON foi2.product_id = p2.product_id
277 GROUP BY p1.product_name, p2.product_name
278 ORDER BY TimesOrderedTogether DESC
279 LIMIT 1;
```

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	product1 text	product2 text	timesorderedtogether bigint
1	Potato 1kg	Peanut 500g	22

Business Insight: The analysis shows that Potato 1kg and Peanut 500g are the most frequently ordered together, appearing together in 22 orders. This indicates a strong complementary buying pattern between these two products. UrbanCart can bundle or recommend these items together to increase cross-selling and improve average basket size.

Question 22 : Which product pairs appear most often across all orders?

Answer :

SL	producta	productb	pairfrequency
1	Potato 1kg	Peanut 500g	22
2	Farm Fresh Milk 1L	Potato 1kg	21
3	Miniket Rice 5kg	Power Bank 10000mAh	18
4	Fresh Sugar 1kg	Sprite 1L	18
5	Onion 1kg	Shoes Polish	18
6	Flour (Atta) 2kg	Cap	18
7	Bru Coffee 200g	Oral Saline (ORS)	17
8	ACI Pure Salt 1kg	Farm Fresh Milk 1L	17
9	Biscuits (Mixed)	Sprite 1L	17
10	Fresh Sugar 1kg	Oral Saline (ORS)	17

SQL Query :

```
281 -- Question 22
282 SELECT
283     p1.product_name AS ProductA,
284     p2.product_name AS ProductB,
285     COUNT(*) AS PairFrequency
286 FROM "FactOrderItems" f1
287 JOIN "FactOrderItems" f2
288     ON f1.order_id = f2.order_id
289     AND f1.product_id < f2.product_id
290 JOIN "DimProducts" p1
291     ON f1.product_id = p1.product_id
292 JOIN "DimProducts" p2
293     ON f2.product_id = p2.product_id
294 GROUP BY p1.product_name, p2.product_name
295 ORDER BY PairFrequency DESC
296 LIMIT 10;
```

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	producta text	productb text	pairfrequency bigint
8	ACI Pure Salt 1kg	Farm Fresh Milk 1L	17

Business Insight: The results show several product pairs that are frequently purchased together, with Potato 1kg and Peanut 500g being the most common combination. The presence of multiple high-frequency pairs across everyday grocery and household items indicates strong cross-buying behavior among customers. UrbanCart can leverage these insights by creating targeted bundles, combo discounts, or “frequently bought together” recommendations to increase average basket size and drive additional revenue.

Question 23 : Are there product pairs that consistently drive higher order values?

Answer :

SL	producta	productb	avgordervalue
1	Nazirshail Rice 5kg	Power Bank 10000mAh	4518
2	Ladies Bag	Power Bank 10000mAh	4200
3	Broiler Chicken (whole)	Power Bank 10000mAh	3736
4	Taaza Black Tea 400g	Power Bank 10000mAh	3610
5	T-shirt (Men)	Power Bank 10000mAh	3464
6	Vim Dishwashing Bar	Power Bank 10000mAh	3452
7	Lux Soap 100g	Power Bank 10000mAh	3405
8	Miniket Rice 5kg	Ladies Bag	3400
9	Power Bank 10000mAh	Earphones	3388
10	T-shirt (Women)	Power Bank 10000mAh	3287

SQL Query :

```
298 -- Question 23
299 WITH OrderPairs AS (
300     SELECT
301         o.order_id,
302         p1.product_name AS ProductA,
303         p2.product_name AS ProductB,
304         SUM(
305             (f1.quantity * p1.unit_price) +
306             (f2.quantity * p2.unit_price)
307         ) AS OrderValue
308     FROM "FactOrders" o
309     JOIN "FactOrderItems" f1
310         ON o.order_id = f1.order_id
311     JOIN "FactOrderItems" f2
312         ON o.order_id = f2.order_id
313         AND f1.product_id < f2.product_id
314     JOIN "DimProducts" p1
315         ON f1.product_id = p1.product_id
316     JOIN "DimProducts" p2
317         ON f2.product_id = p2.product_id
318     GROUP BY o.order_id, p1.product_name, p2.product_name
319 )
320 SELECT
321     ProductA,
322     ProductB,
323     ROUND(AVG(OrderValue), 2) AS AvgOrderValue
324 FROM OrderPairs
325 GROUP BY ProductA, ProductB
326 ORDER BY AvgOrderValue DESC
327 LIMIT 10;
```

Business Insight: The results show that product pairs involving Power Bank 10000mAh consistently generate the highest average order values, especially when combined with high-demand items like rice, apparel, and household products. This indicates that customers are willing to spend significantly more when high-value electronic accessories are included in their

baskets. UrbanCart can maximize revenue by strategically bundling Power Bank 10000mAh with frequently purchased products and promoting these combinations as premium cross-sell offers.

Question 24 : Which product combinations could be recommended as bundles to increase revenue?

Answer :

bundleproduct1	bundleproduct2	bundlefrequency
Potato 1kg	Peanut 500g	22
Farm Fresh Milk 1L	Potato 1kg	21

SQL Query :

```
329 -- Question 24
330 SELECT
331     p1.product_name AS BundleProduct1,
332     p2.product_name AS BundleProduct2,
333     COUNT(*) AS BundleFrequency
334 FROM "FactOrderItems" f1
335 JOIN "FactOrderItems" f2
336     ON f1.order_id = f2.order_id
337     AND f1.product_id < f2.product_id
338 JOIN "DimProducts" p1 ON f1.product_id = p1.product_id
339 JOIN "DimProducts" p2 ON f2.product_id = p2.product_id
340 GROUP BY p1.product_name, p2.product_name
341 HAVING COUNT(*) > 20
342 ORDER BY BundleFrequency DESC;
```

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Showing rows: 1 to 2 Page No:

	bundleproduct1 text	bundleproduct2 text	bundlefrequency bigint
1	Potato 1kg	Peanut 500g	22
2	Farm Fresh Milk 1L	Potato 1kg	21

Business Insight: The analysis identifies Potato 1kg & Peanut 500g and Farm Fresh Milk 1L & Potato 1kg as the most frequent product combinations, each appearing together in over 20 orders. These strong and repeatable purchasing patterns indicate high potential for bundle creation. UrbanCart can increase revenue and basket size by offering these pairs as discounted combo deals or promoting them through “recommended bundles” on the product page and checkout flow.

Question 25 : Which products should UrbanCart promote together to maximize cross-selling opportunities?

Answer :

SL	product_name	ordersappeared
1	Lifebuoy Soap 100g	138
2	Potato 1kg	127
3	Bru Coffee 200g	127
4	Peanut 500g	126
5	Flour (Atta) 2kg	125
6	Sprite 1L	124
7	Nazirshail Rice 5kg	124
8	Clear Men Shampoo 180ml	122
9	Oral Saline (ORS)	120
10	Power Bank 10000mAh	120

SQL Query :

```
344  -- Question 25
345  SELECT
346      p.product_name,
347      COUNT(DISTINCT foi.order_id) AS OrdersAppeared
348  FROM "FactOrderItems" foi
349  JOIN "DimProducts" p
350      ON foi.product_id = p.product_id
351  GROUP BY p.product_name
352  ORDER BY OrdersAppeared DESC
353  LIMIT 10;
```

Data OutputMessagesNotifications

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SQL

Showing rows: 1 to 10  Page No:

	product_name text	ordersappeared bigint
1	Lifebuoy Soap 100g	138
2	Potato 1kg	127
3	Bru Coffee 200g	127
4	Peanut 500g	126
5	Flour (Atta) 2kg	125
6	Sprite 1L	124

Total rows: 10Query complete 00:00:00.442

Business Insight: The analysis shows that Lifebuoy Soap 100g, Potato 1kg, and Bru Coffee 200g appear in the highest number of orders, making them the strongest cross-selling anchor products. These items are frequently purchased alongside other products, indicating broad customer appeal and high basket penetration. UrbanCart should prioritize these products in recommendation widgets, bundle offers, and promotional placements to maximize cross-selling and increase average order value.