

Q1) When is the peak season of our ecommerce ?

Query Query History

```
1 SELECT
2     TO_CHAR(order_date, 'Month') AS month,
3     EXTRACT(MONTH FROM order_date) AS month_number,
4     COUNT(order_id) AS total_orders
5 FROM
6     fact_orders
7 GROUP BY
8     TO_CHAR(order_date, 'Month'),
9     EXTRACT(MONTH FROM order_date)
10 ORDER BY
11     total_orders DESC;
```

Data Output Messages Notifications

Showing rows: 1 to 12 Page No: 1 of 1

	month text	month_number numeric	total_orders bigint
1	August	8	12688
2	May	5	12676
3	July	7	12243
4	March	3	11793
5	June	6	11218
6	April	4	11137

Total rows: 12 Query complete 00:00:01.036 CRLF Ln 11, Col 23

Q2) What time users are most likely make an order or using the ecommerce app?

Query Query History

```
1 --What time users are most likely make an order or using the ecommerce app?
2 SELECT
3     TO_CHAR(order_date, 'HH12 AM') AS hour_of_day,
4     COUNT(order_id) AS total_orders
5 FROM
6     fact_orders
7 GROUP BY
8     TO_CHAR(order_date, 'HH12 AM'),
9     EXTRACT(HOUR FROM order_date)
10 ORDER BY
11     total_orders DESC;
```

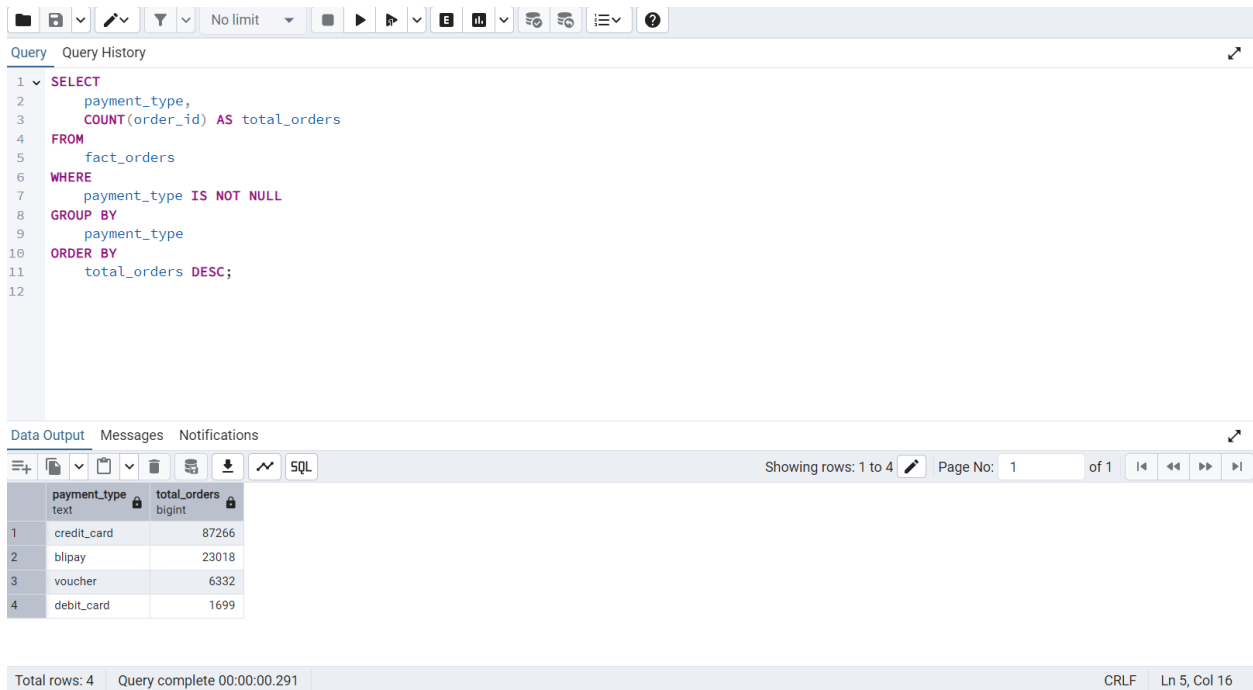
Data Output Messages Notifications

Showing rows: 1 to 24 Page No: 1 of 1

	hour_of_day text	total_orders bigint
1	04 PM	8022
2	02 PM	7951
3	11 AM	7809
4	01 PM	7735
5	03 PM	7654
6	10 AM	7377

✓ File saved successfully. ✕

Q3) What is the preferred way to pay in the ecommerce?



The screenshot shows a SQL query editor with a query that selects the payment type and counts the number of orders for each type, ordered by the total number of orders in descending order. The query is as follows:

```
1 SELECT
2   payment_type,
3   COUNT(order_id) AS total_orders
4 FROM
5   fact_orders
6 WHERE
7   payment_type IS NOT NULL
8 GROUP BY
9   payment_type
10 ORDER BY
11   total_orders DESC;
```

The query results are displayed in a table with 4 rows:

	payment_type text	total_orders bigint
1	credit_card	87266
2	blipay	23018
3	voucher	6332
4	debit_card	1699

The status bar at the bottom indicates: Total rows: 4, Query complete 00:00:00.291, CRLF, Ln 5, Col 16.

Q4) How many installment is usually done when paying in the ecommerce?



The screenshot shows a SQL query editor with a query that calculates the average number of installments per payment. The query is as follows:

```
1 --How many installment is usually done when paying in the ecommerce?
2 SELECT
3   ROUND(AVG(payment_installments)::NUMERIC, 2) AS average_installments
4 FROM
5   fact_orders;
```

The query results are displayed in a table with 1 row:

	average_installments numeric
1	2.94

The status bar at the bottom indicates: Total rows: 1, Query complete 00:00:00.466, CRLF, Ln 5, Col 17.

Q5) What is the average spending time for user for our ecommerce?

Query Query History

```
1 -- What is the average spending time for user for our ecommerce?
2 SELECT
3     ROUND(AVG(EXTRACT(EPOCH FROM (delivered_date - order_date)) / 3600), 2) AS average_spending_time_hours,
4     ROUND(AVG(EXTRACT(EPOCH FROM (delivered_date - order_date)) / 3600/24), 2) AS average_spending_time_days
5 FROM
6     fact_orders
7 WHERE
8     delivered_date IS NOT NULL
9     AND order_date IS NOT NULL;
10
```

Data Output Messages Notifications

Showing rows: 1 to 1 Page No: 1 of 1

	average_spending_time_hours numeric	average_spending_time_days numeric
1	299.72	12.49

Total rows: 1 Query complete 00:00:00.373 CRLF Ln 7, Col 7

Q6) What is the frequency of purchase on each state?

Query Query History

```
1 --What is the frequency of purchase on each state?
2 SELECT
3     u.customer_state AS state,
4     COUNT(o.order_id) AS Purchase_Frequency
5 FROM
6     fact_orders o
7 JOIN
8     dim_users u
9 ON
10    o.user_name=u.user_name
11 GROUP BY
12    u.customer_state
13 ORDER BY
14    Purchase_Frequency DESC;
15
```

Data Output Messages Notifications

Showing rows: 1 to 34 Page No: 1 of 1

	state text	purchase_frequency bigint
1	BANTEN	25414
2	JAWA BARAT	15161
3	DKI JAKARTA	15076
4	JAWA TENGAH	10155
5	JAWA TIMUR	9981
6	SUMATERA UTARA	4749

Q7) Which logistic route that have heavy traffic in our ecommerce?

Query Query History

```
1 -- Which logistic route that have heavy traffic in our ecommerce?
2 SELECT
3     s.seller_city AS seller_city,
4     u.customer_city AS customer_city,
5     COUNT(o.order_id) AS total_orders
6 FROM
7     fact_orders o
8 JOIN
9     dim_sellers s ON o.seller_id = s.seller_id
10 JOIN
11     dim_users u ON o.user_name = u.user_name
12 GROUP BY
13     s.seller_city, u.customer_city
14 ORDER BY
15     total_orders DESC
16 LIMIT 20;
17
```

Data Output Messages Notifications

Showing rows: 1 to 20 Page No: 1 of 1

seller_city	customer_city	totalOrders
text	text	bigint
KOTA TANGERANG	KOTA TANGERANG SELATAN	387
KOTA MAKASSAR	KOTA TANGERANG	378
KABUPATEN BANYUMAS	KOTA TANGERANG	363
KOTA TANGERANG	KOTA BEKASI	351
KOTA JAKARTA BARAT	KOTA TANGERANG	342
KOTA JAKARTA BARAT	KOTA JAKARTA BARAT	338

Q8) How many late delivered order in our ecommerce? Are late order affecting the customer satisfaction?

Query Query History

```
1 --How many late delivered order in our ecommerce? Are late order affecting the customer satisfaction?
2 SELECT
3     CASE
4         WHEN delivered_date > estimated_time_delivery THEN 'Late'
5         ELSE 'On-Time'
6     END AS delivery_status,
7     ROUND(AVG(feedback_score), 2) AS average_feedback_score,
8     COUNT(order_id) AS total_orders
9 FROM
10     fact_orders
11 WHERE
12     feedback_score IS NOT NULL
13     AND delivered_date IS NOT NULL
14     AND estimated_time_delivery IS NOT NULL
15 GROUP BY
16     delivery_status;
17
```

Data Output Messages Notifications

Showing rows: 1 to 2 Page No: 1 of 1

delivery_status	average_feedback_score	totalOrders
text	numeric	bigint
Late	2.53	9068
On-Time	4.20	106662

Q9) How long are the delay for delivery / shipping process in each state?

Query Query History

```
1 -- How long are the delay for delivery / shipping process in each state?
2 SELECT
3   u.customer_state AS state,
4   ROUND(AVG(EXTRACT(EPOCH FROM (delivered_date - pickup_date)) / 86400), 2) AS avg_shipping_time_days
5 FROM
6   fact_orders o
7 JOIN
8   dim_users u ON o.user_name = u.user_name
9 WHERE
10  delivered_date IS NOT NULL
11  AND estimated_time_delivery IS NOT NULL
12  AND pickup_date IS NOT NULL
13 GROUP BY
14  u.customer_state
15 ORDER BY
16  avg_shipping_time_days DESC;
17
```

Data Output Messages Notifications

Showing rows: 1 to 34 Page No: 1 of 1

	state text	avg_shipping_time_days numeric
1	KEPULAUAN BANGKA BELITUNG	12.57
2	BALI	12.23
3	SULAWESI BARAT	12.07
4	KEPULAUAN RIAU	12.05
5	SULAWESI UTARA	11.75
6	SULAWESI TENGGARA	11.73

Total rows: 34 Query complete 00:00:00.572

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CRLF Ln 4, Col 71

Q10) How long are the difference between estimated delivery time and actual delivery time in each state?

Query Query History

```
1 SELECT
2   u.customer_state AS state,
3   ROUND(AVG(ABS(EXTRACT(EPOCH FROM (delivered_date - estimated_time_delivery)) / 86400)), 2) AS avg_delivery_difference_days,
4   CASE
5     WHEN AVG(EXTRACT(EPOCH FROM (delivered_date - estimated_time_delivery)) / 86400) > 0 THEN 'Late'
6     ELSE 'Early'
7   END AS delivery_status
8 FROM
9   fact_orders o
10 JOIN
11   dim_users u ON o.user_name = u.user_name
12 WHERE
13  delivered_date IS NOT NULL
14  AND estimated_time_delivery IS NOT NULL
15 GROUP BY
16  u.customer_state
17
18
```

Data Output Messages Notifications

Showing rows: 1 to 34 Page No: 1 of 1

	state text	avg_delivery_difference_days numeric	delivery_status text
1	ACEH	14.18	Early
2	BALI	13.74	Early
3	BANTEN	11.41	Early
4	BENGKULU	14.32	Early
5	DI YOGYAKARTA	12.03	Early
6	DKI JAKARTA	14.25	Early