

Apex Market Analysis

1. Retrieve all products with a price greater than 500 INR.

```
SELECT *  
FROM  
    product  
WHERE  
    price_inr >= 500
```

Data Output Messages Notifications						
Showing rows						
	product_id integer	product_name character varying (50)	category character varying (50)	price_inr integer	occasion character varying (50)	description character varying (200)
1	1	Magnam Set	Soft Toys	1935	All Occasions	Quam numquam iste sunt nemo.
2	3	Eius Gift	Colors	1534	Valentine's Day	Deserunt pariatur mollitia voluptatem.
3	4	Accusantium Set	Sweets	1199	Diwali	Corporis odio consequatur perferendis repellendus laudantium deser...
4	5	Natus Gift	Colors	1444	All Occasions	Quis occaecati reprehenderit facere tenetur illum exercitationem.
5	6	Quos Box	Cake	1112	Holi	Eum deleniti adipisci vero neque.
6	9	Aperiam Box	Colors	1605	Raksha Bandhan	Explicabo totam quaeat a quaeat ducimus officia.
7	11	Maxime Set	Mugs	1096	Valentine's Day	Sapiente exercitationem illo sed ea.
8	12	Non Set	Plants	672	Anniversary	Fugiat id similique minima corrupti ut sint sapiente.

2. Find all orders placed on or after '2023-01-01'.

```
SELECT *  
FROM  
    orders  
WHERE  
    order_date >= '2023-01-01'
```

Data Output Messages Notifications										
Showing rows: 1 to 1000 Page No: 1										
	order_id integer	customer_id character varying (10)	product_id integer	quantity integer	order_date date	order_time time without time zone	delivery_date date	delivery_time time without time zone	location character varying (50)	occasion character varying (50)
1	1	C037	67	5	2023-02-24	23:48:13	2023-03-05	07:27:10	Bardhaman	Anniversary
2	2	C019	41	2	2023-11-07	23:30:18	2023-11-13	07:16:17	Jaipur	Diwali
3	3	C029	67	5	2023-07-14	19:12:03	2023-07-19	17:39:00	Bilaspur	Anniversary
4	4	C012	14	5	2023-07-10	04:44:29	2023-07-19	06:33:23	Guwahati	Birthday
5	5	C078	58	2	2023-02-11	19:44:48	2023-02-18	11:08:52	Rajkot	Valentine's Day
6	6	C040	28	4	2023-08-20	22:11:35	2023-08-26	19:06:46	Sirsa	Raksha Bandhan
7	7	C009	45	2	2023-05-08	01:45:13	2023-05-13	10:07:17	Nanded	Birthday
8	8	C097	43	3	2023-11-08	19:20:02	2023-11-14	08:44:45	Morena	Diwali

3. List all customers who are from 'Kolkata'.

```
SELECT *  
FROM
```

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customers

WHERE

city = 'Kolkata'

Data Output Messages Notifications

	customer_id [PK] character varying (10)	name character varying (100)	city character varying (50)	contact_number bigint	email character varying (100)	gender character varying (10)	address text
1	C015	Romil Bajwa	Kolkata	918664164910	taimurkashyap@halder.com	Female	890, Sathe Circle

4. Show the order id, customer name, and order date for all orders.

SELECT

C.customer_id, c.name AS customer_name, o.order_date

FROM

customers AS c

INNER JOIN

orders AS o

ON

c.customer_id = o.customer_id

Data Output Messages Notifications

	customer_id character varying (10)	customer_name character varying (100)	order_date date
1	C037	Aradhya Kumar	2023-02-24
2	C019	Amira Sengupta	2023-11-07
3	C029	Badal Sathe	2023-07-14
4	C012	Onkar Mangat	2023-07-10
5	C078	Jivika Rajan	2023-02-11
6	C040	Hazel Mangat	2023-08-20
7	C009	Ritvik Borah	2023-05-08
8	C097	Nakul Randhawa	2023-11-08


5. List all product name and the customer's name who ordered them.

SELECT

c.customer_id, c.name AS customer_name, p.product_name

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```
FROM customers AS c
JOIN orders AS o
ON c.customer_id = o.customer_id
JOIN product AS p
ON P.product_id = o.product_id
```

Data Output Messages Notifications			
			
	customer_id character varying (10)	customer_name character varying (100)	product_name character varying (50)
1	C037	Aradhya Kumar	Maiores Box
2	C019	Amira Sengupta	Aut Box
3	C029	Badal Sathe	Maiores Box
4	C012	Onkar Mangat	Deserunt Box
5	C078	Jivika Rajan	Sed Pack
6	C040	Hazel Mangat	Velit Set
7	C009	Ritvik Borah	Iusto Set
8	C097	Nakul Randhawa	Quisquam Pack

6. Display the customer's name, product name, quantity ordered, and item price for each item in every order.

```
SELECT C.name AS customer_name, P.product_name, p.price_inr,
o.quantity
FROM customers AS c
JOIN orderS AS o
ON c.customer_id = o.customer_id
JOIN product AS p
ON p.product_id = o.product_id
```

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Data Output Messages Notifications				
SQL				
	customer_name character varying (100)	product_name character varying (50)	price_inr integer	quantity integer
21	Drishya De	Fuga Set	1792	1
22	Umang Ahuja	Quisquam Pack	750	1
23	Rati Dhingra	Non Set	672	3
24	Eva Vaidya	Expedita Gift	1744	3
25	Adira Rajan	Recusandae Pack	751	3
26	Hazel Mangat	Quos Box	1112	3
27	Arhaan Ahluwalia	Aperiam Box	1605	2
28	Shalv Kulkarni	Expedita Gift	1744	3

7. Get the order_id, product_name, and quantity for orders where the quantity ordered for a single product in that order is more than 5.

```
SELECT o.order_id, p.product_name, o.quantity
FROM orders AS o
JOIN product AS p
ON o.product_id = p.product_id
WHERE o.quantity >= 5
```

Data Output Messages Notifications			
SQL			
	order_id integer	product_name character varying (50)	quantity integer
1	1	Maiores Box	5
2	3	Maiores Box	5
3	4	Deserunt Box	5
4	15	Quia Gift	5
5	29	Accusantium Gift	5
6	31	Quos Set	5
7	32	Quos Set	5
8	35	Quos Set	5

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8. Calculate the total number of orders placed.

```
SELECT COUNT(order_id) AS total_order  
FROM orders
```

Data Output		Messages	Notifications
	count bigint		
1	1000		

9. Find the average price of all products.

```
SELECT ROUND(AVG(price_inr),2)  
FROM product
```

Data Output		Messages	Notifications
	round numeric		
1	1129.84		

10. Determine the total revenue generated from all orders.

```
SELECT p.product_name, ( o.quantity * p.price_inr ) AS Total_revenue,  
COUNT(o.product_id) AS Total_customer_order  
FROM orders AS o  
JOIN product AS p  
ON o.product_id = p.product_id  
GROUP BY p.product_name, total_revenue  
ORDER by Total_revenue DESC
```

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Data Output Messages Notifications

	product_name character varying (50)	total_revenue integer	total_customer_order bigint
1	Aut Box	9885	4
2	Magnum Set	9675	4
3	Provident Pack	9615	3
4	Deserunt Box	9575	6
5	Dolores Gift	9520	4
6	Delectus Gift	9495	2
7	Error Gift	9475	2
8	Nostrum Box	9390	2

11. What is the MIN and MAX price among all products?

```
SELECT MAX(price_inr) AS MAX_product_price,  
       MIN(price_inr) AS MIN_product_price  
FROM   product
```

Data Output Messages Notifications

	max_product_price integer	min_product_price integer
1	1977	203

12. Count the number of orders placed by each customer.

```
SELECT COUNT(o.customer_id), C.name AS customer_name,  
       SUM(quantity) AS Total_quantity_order  
FROM   orders AS o  
JOIN   customers AS c  
ON     o.customer_id = c.customer_id  
GROUP BY c.name  
ORDER BY Total_quantity_order DESC
```

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Data Output Messages Notifications			
SQL			
	count bigint	customer_name character varying (100)	total_quantity_order bigint
1	17	Seher Mann	61
2	16	Veer Ray	55
3	16	Samaira Ganesh	54
4	15	Divit Mahajan	50
5	17	Ranbir Loyal	50
6	13	Rati Dhingra	45
7	14	Aaryahi Sodhi	45
8	14	Jhanvi Chowdhury	44

13. Calculate the total quantity sold for each product category.


```
SELECT p.category, SUM(O.Quantity) AS total_quantity, p.price_inr, (
o.quantity * p.price_inr ) AS Total_revenue
FROM product AS p
JOIN orders AS o
ON p.product_id = o.product_id
GROUP BY category, Total_revenue, p.price_inr
```

Data Output Messages Notifications				
SQL				
	category character varying (50)	total_quantity bigint	price_inr integer	total_revenue integer
1	Soft Toys	3	1904	5712
2	Colors	6	1915	3830
3	Mugs	15	1141	3423
4	Sweets	15	1199	3597
5	Cake	6	1236	2472
6	Cake	10	562	2810
7	Plants	4	203	812
8	Sweets	2	1348	1348

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14. Find the average order_quantity for products in each category.

```
SELECT p.category, ROUND(AVG(o.quantity), 2) AS Avg_order_quantity
FROM product AS p
JOIN orders AS o
ON p.product_id = o.product_id
GROUP BY p.category
```

Data Output Messages Notifications		
		
	category character varying (50) 🔒	avg_order_quantity numeric 🔒
1	Mugs	3.14
2	Cake	3.18
3	Raksha Bandhan	2.81
4	Colors	2.97
5	Plants	3.09
6	Soft Toys	3.03
7	Sweets	3.16

15. List customer_name who have placed more than 7 orders.

```
SELECT COUNT(o.customer_id) AS Total_Order_place, c.name AS
customer_name
FROM orders AS o
JOIN customers AS c
ON o.customer_id = c.customer_id
GROUP BY c.customer_id
HAVING COUNT(o.customer_id) >= 7;
```


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	total_order_place bigint	customer_name character varying (100)
1	9	Aradhya Kale
2	12	Purab Sheth
3	14	Aaryahi Sodhi
4	8	Anya Chaudhari
5	13	Manikya Goswami
6	13	Hridaan Rajagopalan
7	8	Mohanlal Garde
8	11	Hazel Mangat

16. Show product category that have a total revenue greater than 400000

```
SELECT p.category, SUM(o.quantity * p.price_inr ) AS Total_revenue
FROM product AS p
JOIN orders AS o
ON p.product_id = o.product_id
GROUP BY p.category
HAVING SUM(o.quantity * p.price_inr ) > 400000
```

	category character varying (50)	total_revenue bigint
1	Colors	1005645
2	Soft Toys	740831
3	Sweets	733842

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17. Retrieve the top 5 most expensive products.

```
SELECT *  
FROM product  
ORDER BY price_inr DESC  
LIMIT 5
```

	product_id integer	product_name character varying (50)	category character varying (50)	price_inr integer	occasion character varying (50)	description character varying (200)
1	41	Aut Box	Sweets	1977	Diwali	Ab quisquam nobis ducimus.
2	1	Magnum Set	Soft Toys	1935	All Occasions	Quam numquam iste sunt nemo.
3	40	Provident Pack	Sweets	1923	Anniversary	Voluptate eaque accusamus nobis voluptatem accusamus.
4	14	Deserunt Box	Colors	1915	Birthday	Incidunt hic vero esse saepe illum.
5	55	Dolores Gift	Soft Toys	1904	Raksha Bandhan	Nobis sed corrupti cupiditate fugiat unde.

18. List the customers and their total number of orders, ordered from most to fewest orders.

```
SELECT c.name AS customer_name, COUNT(o.customer_id) AS  
No_of_order_place  
FROM customers AS c  
JOIN orders AS o  
ON c.customer_id = o.customer_id  
GROUP BY c.name  
ORDER BY No_of_order_place ASC  
LIMIT 5
```

Apex Market Analysis

Data Output

Messages

Notifications

SQL

	<div>customer_name</div> <div>character varying (100)</div> <div></div>	<div>no_of_order_place</div> <div>bigint</div> <div></div>
1	Kavya Reddy	3
2	Hiran Kaul	4
3	Tara Krishnan	5
4	Ivana Amble	5
5	Bhamini Johal	6

19. Find the customer_name and their total amount spent for customers who have spent more than 5000, ordered by the total amount spent in descending order.

SELECT

o.customer_id, c.name AS customer_name,
(p.price_inr * o.quantity) AS total_revenue

FROM orders AS O

JOIN customers AS c

ON o.customer_id = c.customer_id

JOIN product AS p

ON o.product_id = p.product_id

WHERE (p.price_inr * o.quantity) > 5000

ORDER BY total_revenue ASC

Apex Market Analysis

Data Output

Messages

Notifications

SQL

	customer_id character varying (10)	customer_name character varying (100)	total_revenue integer
1	C019	Amira Sengupta	5008
2	C070	Emir Gokhale	5008
3	C045	Divit Mahajan	5008
4	C045	Divit Mahajan	5016
5	C099	Ranbir Loyal	5016
6	C025	Ira Bava	5088
7	C100	Pranay Chaudhary	5088
8	C004	Tarini Bava	5088

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Table

```
CREATE TABLE customers (  
    Customer_ID VARCHAR(10) PRIMARY KEY,  
    Name VARCHAR(100) NOT NULL,  
    City VARCHAR(50),  
    Contact_Number BIGINT,  
    Email VARCHAR(100),  
    Gender VARCHAR(10),  
    Address TEXT  
);
```

```
CREATE TABLE product (  
    Product_ID INT,  
    Product_Name VARCHAR(50),  
    Category VARCHAR(50),  
    Price_INR INT, -- Fixed column name  
    Occasion VARCHAR(50),  
    Description VARCHAR(200)  
);
```

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```
CREATE TABLE orders(  
  Order_ID INT,  
  Customer_ID VARCHAR(10),  
  Product_ID INT,  
  Quantity INT,  
  Order_Date DATE,  
  Order_Time TIME,  
  Delivery_Date DATE,  
  Delivery_Time TIME,  
  Location VARCHAR(50),  
  Occasion VARCHAR(50)  
)
```

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