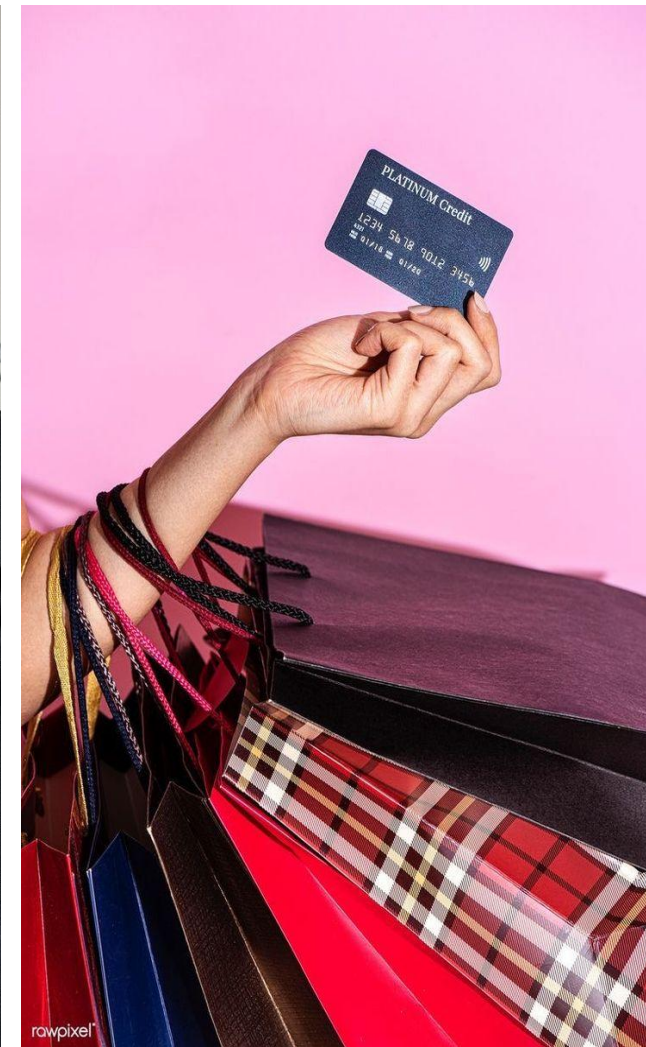


ONLINE SHOPPING



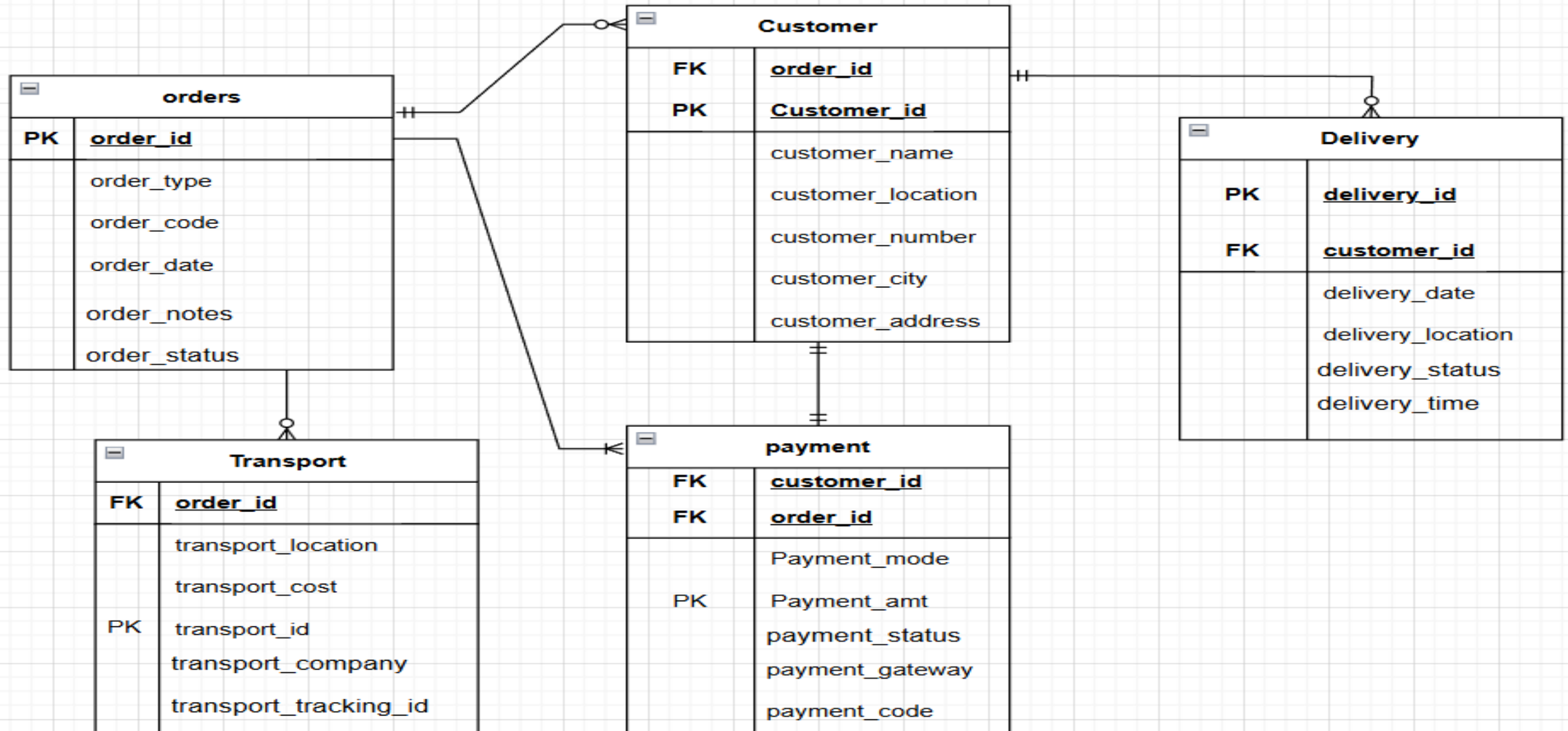


ABSTRACT

ONLINE SHOPPING HAS REVOLUTIONIZED CONSUMERISM OFFERING UNPRECEDENTED ACCESS To A GLOBAL MARKETPLACE WITH IT'S CONVENIENCE , COMPETITIVE PRICING AND 24/7 AVAILABILITY, IT HAS BECOME AN INTEGRAL PART OF MODERN LIFE.

IT WILL HELP THE USER TO SEARCH VARIOUS ITEMS , CHECK THE INFO GIVEN ABOUT THE PRODUCT, AND CAN RATE THEM AND COMMENT ON THEM, THERE ARE VARIOUS TYPES OF BRANDS AND SMALL BUSINESS WHO OFFER WIDE RANGE OF ITEMS ONLINE . THAT CAN HELP THE CUSTOMER TO LOOK ON THEIR PREFERENCE.

ER DIAGRAM



STRUCTURE OF TABLE



ORDERS

desc orders;

Field	Type	Null	Key	Default	Extra
order_id	int	NO	PRI	NULL	
order_type	varchar(40)	NO		NULL	
order_code	bigint	NO		NULL	
order_status	varchar(255)	YES		NULL	
order_notes	text	YES		NULL	
order_date	datetime	YES		CURRENT_...	DEFAULT_GENERATED

ORDERS TABLE:

The table stores information about different orders, including their unique ID, type, code, status , notes and the date and time they were placed.

SYNTAX: Desc Orders;

CUSTOMER

desc customer;

Field	Type	Null	Key	Default	Extra
order_id	int	YES	MUL	<div>NULL</div>	
customer_name	varchar(50)	NO		<div>NULL</div>	
customer_location	varchar(50)	NO		<div>NULL</div>	
customer_id	bigint	NO	PRI	<div>NULL</div>	
customer_number	bigint	NO		<div>NULL</div>	
customer_address	text	YES		<div>NULL</div>	
customer_city	varchar(255)	YES		<div>NULL</div>	

CUSTOMER TABLE:

This table stores customer information, including their name, location, unique ID, address, city and a customer number.

SYNTAX: Desc customer;

Delivery

Desc delivery;

Field	Type	Null	Key	Default	Extra
customer_id	bigint	YES	MUL	NULL	
delivery_id	int	NO	PRI	NULL	
delivery_date	datetime	NO		NULL	
delivery_location	varchar(50)	NO		NULL	
delivery_time	time	YES		NULL	
delivery_status	varchar(255)	YES		NULL	

DELIVERY TABLE:

This table stores information about deliveries, including the delivery ID, date, location,time ,status and optionally the associated customer ID.

SYNTAX : Desc delivery;

PAYMENT

desc payment;

Field	Type	Null	Key	Default	Extra
customer_id	bigint	YES	MUL	NULL	
order_id	int	YES	MUL	NULL	
payment_mode	varchar(40)	NO		NULL	
payment_status	varchar(255)	YES		NULL	
payment_gateway	varchar(255)	YES		NULL	
payment_amt	bigint	NO	PRI	NULL	
payment_code	int	NO		NULL	

PAYMENT TABLE:

This table tracks payment details, linking customers and orders with their chosen payment method ,amt, gateway ,code and the corresponding transaction amount.

SYNTAX: Desc payment;

TRANSPORT

Desc transport;

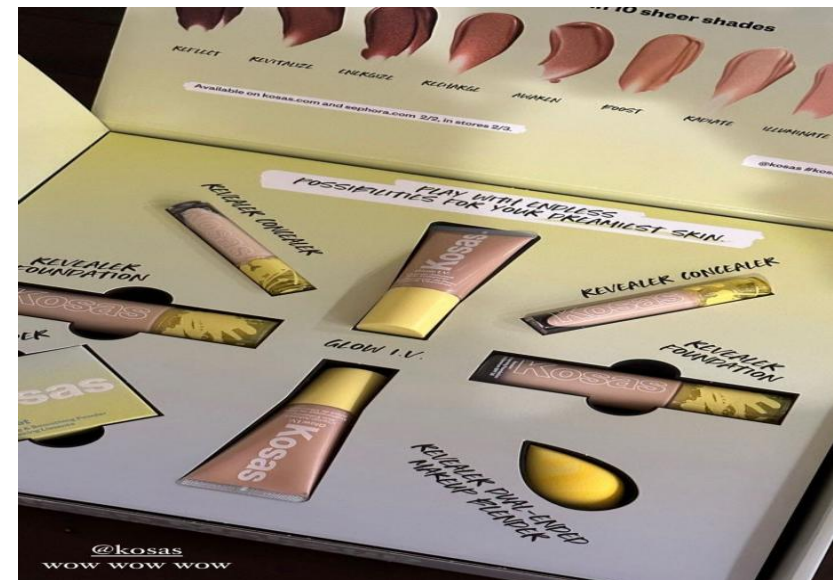
Field	Type	Null	Key	Default	Extra
order_id	int	YES	MUL	NULL	
transport_location	varchar(50)	NO		NULL	
transport_cost	bigint	NO		NULL	
transport_id	bigint	NO	PRI	NULL	
transport_provider	varchar(255)	YES		NULL	
delivery_eta	timestamp	YES		NULL	

PAYMENT TABLE:

This table provides details about transportation, including the order ID, delivery location, associated cost, order provider and a unique transport ID.

SYNTAX: DESC PAYMENT;

CONTENTS OF TABLE



ORDERS

SYNTAX: SELECT*FROM ORDERS;

order_id	order_type	order_code	order_status	order_notes	order_date
1	delivery	1234567890	pending	Please deliver before 5 PM	2025-01-24 01:54:17
2	pickup	9876543210	confirmed	Customer will pick up at 2 PM	2025-01-24 01:54:17
3	delivery	5555555555	shipped	Order shipped via FedEx	2025-01-24 01:54:17
4	pickup	4444444444	completed	Order picked up by customer	2025-01-24 01:54:17
5	delivery	3333333333	pending	Special instructions for delivery	2025-01-24 01:54:17
6	pickup	2222222222	confirmed	Customer will pick up tomorrow	2025-01-24 01:54:17
7	delivery	1111111111	shipped	Order shipped via DHL	2025-01-24 01:54:17
8	pickup	0	completed	Order picked up successfully	2025-01-24 01:54:17
9	delivery	9999999999	pending	Please call customer before delivery	2025-01-24 01:54:17
10	pickup	8888888888	confirmed	Customer will pick up later today	2025-01-24 01:54:17
11	delivery	7777777777	shipped	Order shipped via UPS	2025-01-24 01:54:17
12	pickup	6666666666	completed	Order picked up by customer	2025-01-24 01:54:17
13	delivery	5555555555	pending	No special instructions	2025-01-24 01:54:17
14	pickup	4444444444	confirmed	Customer will pick up within 30 minutes	2025-01-24 01:54:17
15	delivery	3333333333	shipped	Order shipped via FedEx	2025-01-24 01:54:17
21	pickup	8888888888	completed	Order picked up by customer	2025-01-24 01:54:17
22	delivery	9999999999	shipped	Order shipped via DHL	2025-01-24 01:54:17
23	pickup	0	confirmed	Customer will pick up tomorrow	2025-01-24 01:54:17
24	delivery	1111111111	pending	Please deliver to the back door	2025-01-24 01:54:17
25	pickup	2222222222	completed	Order picked up successfully	2025-01-24 01:54:17

CUSTOMER

*SYNTAX: SELECT*FROM CUSTOMER;*

order_id	customer_name	customer_location	customer_id	customer_number	customer_address	customer_city
1	John Doe	123 Main St	1	1234567890	123 Main St, Anytown	Anytown
2	Jane Smith	456 Oak Ave	2	9876543210	456 Oak Ave, Someville	Someville
3	David Lee	789 Pine Rd	3	5555555555	789 Pine Rd, Otherburg	Otherburg
4	Sarah Jones	101 Elm St	4	4444444444	101 Elm St, Anytown	Anytown
5	Michael Brown	202 Oak Ave	5	3333333333	202 Oak Ave, Someville	Someville
6	Emily Davis	303 Pine Rd	6	2222222222	303 Pine Rd, Otherburg	Otherburg
7	Daniel Wilson	404 Elm St	7	1111111111	404 Elm St, Anytown	Anytown
8	Olivia Taylor	505 Oak Ave	8	0	505 Oak Ave, Someville	Someville
9	James Anderson	606 Pine Rd	9	9999999999	606 Pine Rd, Otherburg	Otherburg
10	Chloe Clark	707 Elm St	10	8888888888	707 Elm St, Anytown	Anytown
25	Isabella Miller	1313 Elm St	11	2222222222	1313 Elm St, Anytown	Anytown
24	Jacob Hunter	1414 Oak Ave	12	1111111111	1414 Oak Ave, Someville	Someville
23	Charlotte King	1515 Pine Rd	13	0	1515 Pine Rd, Otherburg	Otherburg
22	Logan Wright	1616 Elm St	14	9999999999	1616 Elm St, Anytown	Anytown
21	Avery Collins	1717 Oak Ave	15	8888888888	1717 Oak Ave, Someville	Someville
11	Liam Lewis	808 Oak Ave	21	7777777777	808 Oak Ave, Someville	Someville
13	Ethan Green	1010 Elm St	23	5555555555	1010 Elm St, Anytown	Anytown
15	Mason Adams	1212 Pine Rd	25	3333333333	1212 Pine Rd, Otherburg	Otherburg
12	Sophia Hall	909 Pine Rd	29	6666666666	909 Pine Rd, Otherburg	Otherburg
14	Ava Young	1111 Oak Ave	30	4444444444	1111 Oak Ave, Someville	Someville

DELIVERY

SYNTAX:SELECT*FROM DELIVERY

customer_id	delivery_id	delivery_date	delivery_location	delivery_time	delivery_status
1	1	2024-12-20 10:00:00	123 Main St	10:30:00	delivered
2	2	2024-12-21 15:00:00	456 Oak Ave	15:30:00	delivered
4	4	2024-12-23 11:00:00	101 Elm St	11:30:00	delivered
7	7	2024-12-26 10:00:00	404 Elm St	10:30:00	delivered
9	9	2024-12-28 14:00:00	606 Pine Rd	14:30:00	delivered
3	10003	2024-12-22 09:00:00	789 Pine Rd	09:15:00	delivered
5	10005	2024-12-24 13:00:00	202 Oak Ave	13:30:00	delivered
6	10006	2024-12-25 15:00:00	303 Pine Rd	15:30:00	delivered
8	10008	2024-12-27 12:00:00	505 Oak Ave	12:30:00	delivered
10	10010	2024-12-29 16:00:00	707 Elm St	16:30:00	delivered
21	10011	2024-12-30 11:00:00	808 Oak Ave	11:30:00	delivered
29	10012	2024-12-31 13:00:00	909 Pine Rd	13:30:00	delivered
23	10013	2025-01-01 15:00:00	1010 Elm St	15:30:00	delivered
30	10014	2025-01-02 10:00:00	1111 Oak Ave	10:30:00	delivered
25	10015	2025-01-03 12:00:00	1212 Pine Rd	12:30:00	delivered
11	10016	2025-01-04 14:00:00	1313 Elm St	14:30:00	delivered
12	10017	2025-01-05 16:00:00	1414 Oak Ave	16:30:00	delivered
13	10018	2025-01-06 11:00:00	1515 Pine Rd	11:30:00	delivered
14	10019	2025-01-07 13:00:00	1616 Elm St	13:30:00	delivered
15	10020	2025-01-08 15:00:00	1717 Oak Ave	15:30:00	delivered

PAYMENT

SYNTAX: SELECT*FROM PAYMENT;

customer_id	order_id	payment_mode	payment_status	payment_gateway	payment_amt	payment_code
4	4	Debit Card	Success	MasterCard	12	10004
8	8	Cash	Success	N/A	45	10008
2	2	Cash	Success	N/A	50	10002
30	14	Cash	Success	N/A	55	10014
15	21	Cash	Success	N/A	58	10020
5	5	Cash	Success	N/A	60	10005
12	24	Cash	Success	N/A	65	10017
21	11	Cash	Success	N/A	70	10011
3	3	Online	Success	PayPal	75	10003
25	15	Online	Success	PayPal	80	10015
6	6	Online	Success	Google Pay	85	10006
9	9	Online	Success	Apple Pay	90	10009
29	12	Online	Success	MasterCard	95	10012
13	23	Online	Success	Visa	99	10018
1	1	Credit Card	Success	Visa	100	10001
10	22	Credit Card	Success	Visa	105	10010
7	7	Credit Card	Success	Amex	110	10007
11	25	Credit Card	Success	Stripe	115	10016
14	22	Credit Card	Success	MasterCard	120	10019
23	13	Credit Card	Success	Amex	125	10013

TRANSPORT

SYNTAX:SELECT*FROM TRANSPORT;

order_id	transport_location	transport_cost	transport_id	transport_provider	delivery_eta
10	Warehouse B	14	0	FedEx	2024-12-29 12:00:00
8	Warehouse B	12	8	DHL	2024-12-27 11:30:00
13	Warehouse A	11	13	FedEx	2025-01-01 11:00:00
25	Warehouse B	15	16	FedEx	2025-01-04 10:00:00
22	Warehouse A	18	19	FedEx	2025-01-07 11:00:00
1	Warehouse A	10	10001	FedEx	2024-12-20 08:00:00
2	Warehouse B	8	10002	DHL	2024-12-21 14:00:00
3	Warehouse A	12	10003	UPS	2024-12-22 08:30:00
4	Warehouse B	10	10004	FedEx	2024-12-23 10:30:00
5	Warehouse A	9	10005	DHL	2024-12-24 12:30:00
6	Warehouse B	11	10006	UPS	2024-12-25 14:30:00
7	Warehouse A	13	10007	FedEx	2024-12-26 09:30:00
9	Warehouse A	15	10009	UPS	2024-12-28 10:00:00
11	Warehouse A	16	10011	DHL	2024-12-30 14:00:00
12	Warehouse B	13	10012	UPS	2024-12-31 16:00:00
14	Warehouse B	12	10014	DHL	2025-01-02 13:00:00
15	Warehouse A	14	10015	UPS	2025-01-03 15:00:00
24	Warehouse A	17	10017	DHL	2025-01-05 12:00:00
23	Warehouse B	16	10018	UPS	2025-01-06 14:00:00
21	Warehouse B	17	10020	DHL	2025-01-08 13:00:00



JOINS



JOINS

order_id	customer_name	transport_provider	delivery_eta
10	Chloe Clark	FedEx	2024-12-29 12:00:00
13	Ethan Green	FedEx	2025-01-01 11:00:00
25	Isabella Miller	FedEx	2025-01-04 10:00:00
22	Logan Wright	FedEx	2025-01-07 11:00:00
1	John Doe	FedEx	2024-12-20 08:00:00
4	Sarah Jones	FedEx	2024-12-23 10:30:00
7	Daniel Wilson	FedEx	2024-12-26 09:30:00

➤ ***Find the order ID, customer name, transport provider, and estimated time of arrival (ETA) for all orders that are being shipped by FedEx.***

```
SELECT orders.order_id,  
         customer.customer_name,  
         transport.transport_provider,  
         transport.delivery_eta  
FROM   orders  
        INNER JOIN  
customer ON orders.order_id =  
customer.order_id  
        INNER JOIN  
transport ON orders.order_id =  
transport.order_id  
WHERE  
        transport.transport_provider =  
'FedEx';
```


JOINS

order_id	order_type	order_notes	customer_id
1	delivery	Please deliver before 5 PM	1
2	pickup	Customer will pick up at 2 PM	2
3	delivery	Order shipped via FedEx	3
4	pickup	Order picked up by customer	4
5	delivery	Special instructions for delivery	5
6	pickup	Customer will pick up tomorrow	6
7	delivery	Order shipped via DHL	7
8	pickup	Order picked up successfully	8
9	delivery	Please call customer before delivery	9
10	pickup	Customer will pick up later today	10
11	delivery	Order shipped via UPS	11
12	pickup	Order picked up by customer	12
13	delivery	No special instructions	13
14	pickup	Customer will pick up within 30 min...	14
15	delivery	Order shipped via FedEx	15
21	pickup	Order picked up by customer	21
23	pickup	Customer will pick up tomorrow	23
25	pickup	Order picked up successfully	25

➤ ***Find the order details (order_id , customer_id , order_type , order_notes) for all customer.***

**select orders.order_id,
orders.order_type,orders.order_notes,customer.
customer_id**

**From
orders
inner join customer
on orders.order_id = customer.customer_id;**

JOINS

order_id	customer_name
8	Olivia Taylor
2	Jane Smith
5	Michael Brown
11	Liam Lewis
14	Ava Young
24	Jacob Hunter
21	Avery Collins

- ***Find the order IDs and customer names for all orders that were shipped by DHL and have a payment status of 'Success'.***

***SELECT orders.order_id,
customer.customer_name FROM orders***

***INNER JOIN
customer ON orders.order_id =
customer.order_id***

***INNER JOIN
transport ON orders.order_id =
transport.order_id***

***INNER JOIN
payment ON orders.order_id = payment.order_id
WHERE transport.transport_provider = 'DHL'
AND payment.payment_status = 'Success';***



SUB QUERIES



SUB QUERIES

customer_name
John Doe
Jane Smith
David Lee
Sarah Jones
Michael Brown
Emily Davis
Daniel Wilson
Olivia Taylor
James Anderson
Chloe Clark
Isabella Miller
Jacob Hunter
Charlotte King
Logan Wright
Avery Collins
Liam Lewis
Ethan Green
Mason Adams
Sophia Hall
Ava Young

- How can we find customers who have pending orders but have not made any payment for them?

```
SELECT customer_name FROM customer WHERE  
customer_id  
IN  
( SELECT customer_id FROM orders  
WHERE order_status = 'pending' AND  
customer_id  
NOT IN  
( SELECT customer_id FROM payment  
WHERE payment.order_id = orders.order_id ));
```

SUB QUERIES

customer_name	payment_amt
Olivia Taylor	45
Jane Smith	50
Michael Brown	60
Liam Lewis	70
Isabella Miller	115
Logan Wright	120

- **Get the customer names and their payment amounts for orders where the transport provider is 'DHL' and the payment status is 'Success'.**

```
SELECT customer.customer_name,  
payment.payment_amtFROM customer  
JOIN  
payment ON customer.customer_id =  
payment.customer_id  
WHERE  
payment.payment_status = 'Success'AND  
payment.customer_id  
IN  
(SELECT order_id FROM transport WHERE  
transport_provider = 'DHL');
```

SUB QUERIES

customer_name
John Doe
Daniel Wilson
Ethan Green
Logan Wright

- Find the customer names who have placed a 'delivery' order and paid with 'Credit Card'

```
SELECT
customer.customer_name FROM customer
WHERE
  customer.order_id
IN
  (SELECT orders.order_id  FROM orders
WHERE orders.order_type = 'delivery' AND
orders.order_id
IN
  ( SELECT payment.order_id      FROM payment
WHERE payment.payment_mode = 'Credit Card'
));
```


SUB QUERIES

customer_name	transport_provider
John Doe	FedEx
David Lee	UPS
Sarah Jones	FedEx
Emily Davis	UPS
Daniel Wilson	FedEx
James Anderson	UPS
Sophia Hall	UPS

- Find the customer names and the transport provider for orders paid online and delivered before 2025-01-01

```
SELECT  
customer.customer_name,  
transport.transport_provider  
FROM  
customer JOIN transport ON customer.order_id  
= transport.order_id WHERE customer.order_id  
IN  
( SELECT orders.order_id FROM orders  
WHERE orders.order_id  
IN  
( SELECT payment.order_id FROM payment  
WHERE payment.payment_mode != 'Cash' --  
Assuming "online" means not cash ))  
AND  
transport.delivery_eta < '2025-01-01';
```



VIEWS



VIEWS

delivery_id	delivery_date	delivery_time	delivery_location
1	2024-12-20 10:00:00	10:30:00	123 Main St
10005	2024-12-24 13:00:00	13:30:00	202 Oak Ave
9	2024-12-28 14:00:00	14:30:00	606 Pine Rd
10018	2025-01-06 11:00:00	11:30:00	1515 Pine Rd

- Create a view named 'Pending_Deliveries' that displays all delivery information for orders that are currently pending.

```
CREATE VIEW  
Pending_Deliveries AS  
SELECT delivery.delivery_id,  
delivery.delivery_date,  
delivery.delivery_time,  
delivery.delivery_location FROM delivery  
JOIN  
orders ON delivery.customer_id =  
orders.order_id WHERE orders.order_status  
= 'pending';
```

```
select*from Pending_Deliveries;
```


VIEWS

- **Calculates the average payment amount per city, which could be useful for analyzing payment trends across different locations.**

customer_city	average_payment
Anytown	98.1429
Someville	57.5714
Otherburg	87.3333

```
CREATE VIEW average_payment_per_city AS  
SELECT  
    customer.customer_city,  
    AVG(payment.payment_amt) AS  
    average_payment  
FROM    payment  
JOIN    customer ON payment.customer_id =  
        customer.customer_id  
GROUP BY  
    customer.customer_city;
```

```
select*from average_payment_per_city;
```

VIEWS

order_id	order_code	order_status	delivery_date	delivery_time	transport_cost	transport_provider	delivery_eta
1	1234567890	pending	2024-12-20 10:00:00	10:30:00	10	FedEx	2024-12-20 08:00:00
2	9876543210	confirmed	2024-12-21 15:00:00	15:30:00	8	DHL	2024-12-21 14:00:00
4	4444444444	completed	2024-12-23 11:00:00	11:30:00	10	FedEx	2024-12-23 10:30:00
7	1111111111	shipped	2024-12-26 10:00:00	10:30:00	13	FedEx	2024-12-26 09:30:00
9	9999999999	pending	2024-12-28 14:00:00	14:30:00	15	UPS	2024-12-28 10:00:00
3	5555555555	shipped	2024-12-22 09:00:00	09:15:00	12	UPS	2024-12-22 08:30:00
5	3333333333	pending	2024-12-24 13:00:00	13:30:00	9	DHL	2024-12-24 12:30:00
6	2222222222	confirmed	2024-12-25 15:00:00	15:30:00	11	UPS	2024-12-25 14:30:00
8	0	completed	2024-12-27 12:00:00	12:30:00	12	DHL	2024-12-27 11:30:00
10	8888888888	confirmed	2024-12-29 16:00:00	16:30:00	14	FedEx	2024-12-29 12:00:00
21	8888888888	completed	2024-12-30 11:00:00	11:30:00	17	DHL	2025-01-08 13:00:00
23	0	confirmed	2025-01-01 15:00:00	15:30:00	16	UPS	2025-01-06 14:00:00
25	2222222222	completed	2025-01-03 12:00:00	12:30:00	15	FedEx	2025-01-04 10:00:00
11	7777777777	shipped	2025-01-04 14:00:00	14:30:00	16	DHL	2024-12-30 14:00:00
12	6666666666	completed	2025-01-05 16:00:00	16:30:00	13	UPS	2024-12-31 16:00:00
13	5555555555	pending	2025-01-06 11:00:00	11:30:00	11	FedEx	2025-01-01 11:00:00
14	4444444444	confirmed	2025-01-07 13:00:00	13:30:00	12	DHL	2025-01-02 13:00:00
15	3333333333	shipped	2025-01-08 15:00:00	15:30:00	14	UPS	2025-01-03 15:00:00

➤ **This view shows all delivered orders along with the transport cost for each order, including the transport provider and delivery ETA.**

```
CREATE VIEW  
delivered_orders_and_transport_cost AS  
SELECT orders.order_id,  
orders.order_code, orders.order_status,  
delivery.delivery_date,  
delivery.delivery_time,  
transport.transport_cost,  
transport.transport_provider,  
transport.delivery_eta FROM orders JOIN  
delivery ON orders.order_id =  
delivery.customer_id JOIN transport ON  
orders.order_id = transport.order_id WHERE  
delivery.delivery_status = 'delivered';
```

```
select*from  
delivered_orders_and_transport_cost ;
```

VIEWS

- This view identifies the top 5 customers by total payment amount, sorted in descending order. This helps in recognizing the most valuable customers.

customer_name	customer_city	total_payment
Ethan Green	Anytown	125
Logan Wright	Anytown	120
Isabella Miller	Anytown	115
Daniel Wilson	Anytown	110
Chloe Clark	Anytown	105

CREATE VIEW

```
top_customers_by_payment AS SELECT
customer.customer_name,
customer.customer_city,
SUM(payment.payment_amt) AS
total_payment FROM payment JOIN customer
ON payment.customer_id =
customer.customer_id GROUP BY
customer.customer_name,
customer.customer_city ORDER BY
total_payment DESC LIMIT 5;
```

```
select * from top_customers_by_payment;
```




PREPARED BY :

**VISHAKA BAROD
IT VEDANT**

**T331/DS&DA/NOV2024/PS 9AM TO
11 AM**



THANK YOU