

Department of Computer Science & Engineering Database System Lab (CSE-212)

Online Food Delivery System

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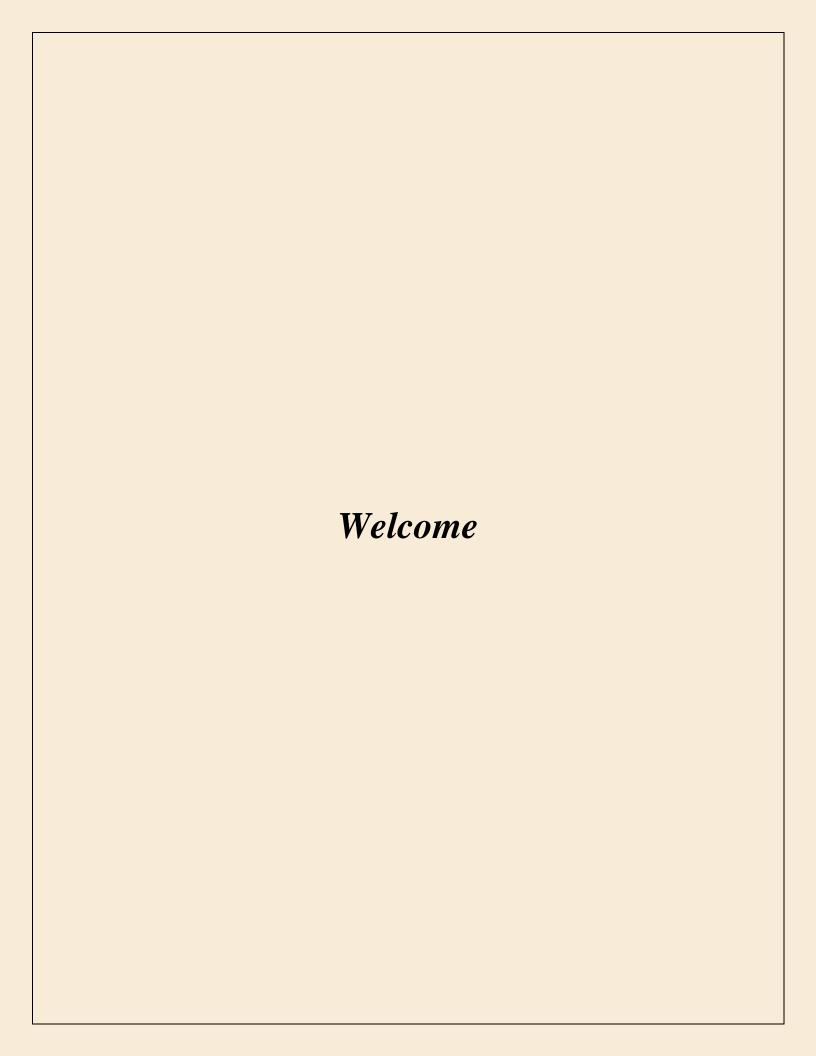
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Topic

An online food delivery system is a platform that allows customers to order meals from various restaurants and have them delivered to their doorstep. An online food delivery system has become essential in today's fast-paced world due to its convenience, accessibility, and efficiency. It allows customers to enjoy restaurant-quality meals at home without the hassle of traveling, waiting in lines, or dealing with crowded spaces. These systems cater to a variety of needs, from busy professionals seeking quick meals to families enjoying dinner together or individuals exploring diverse cuisines. For businesses, food delivery platforms offer a powerful channel to reach a broader audience, especially those who may not visit physical locations. This is particularly valuable for small and mid-sized restaurants aiming to compete with larger chains. They also foster innovation, enabling features like real-time tracking, personalized recommendations, and seamless digital payments, enhancing the overall dining experience for customers. As technology advances, online food delivery systems are poised to continue reshaping how people access and enjoy food globally.

The users of an **online food delivery system** can be categorized into several key groups, each with specific needs and interactions with the platform:

1. Customers:

These are individuals who use the system to browse menus, place orders, and have food delivered. Customers can be regular users seeking convenience, office workers looking for quick meals, or food enthusiasts exploring new cuisines.

2. Restaurant Owners/Managers:

Restaurants use the system to showcase their menus, manage orders, and expand their customer base. They rely on the platform to streamline operations, track sales, and enhance brand visibility.

3. Delivery Personnel:

Delivery drivers use the system to receive and fulfill delivery requests. They often rely on mobile apps for navigation, tracking, and efficient communication with customers and restaurants.

4. System Administrators:

These are the individuals or teams responsible for maintaining and managing the platform. They ensure smooth operation, handle disputes, manage user accounts, and oversee the overall functionality of the system.

5. Payment Providers:

Financial institutions and third-party payment gateways are indirectly part of the system, facilitating secure transactions between customers and restaurants.

6. Marketers/Advertisers:

These users leverage the platform to promote restaurants, special offers, or related products to target audiences, enhancing visibility and sales.

Each user group interacts with the system differently, contributing to its holistic functionality and success.

Tables Affiliated

Users

Restaurant

Menu_Item

Order_Item

Payment

Feedback

Orders

Delivery

Security

Geolocation

Notification

Real_Time_Tracking

Coupon

Delivery_Person and Order_Customization.

Attributes instituted

1. Users:

- user_id (Primary Key)
- > name
- > email
- > phone
- delivery_address

2. Restaurant:

- restaurant_id (Primary Key)
- > name
- > location
- contact_info

3. Menu_Item:

- ➤ item_id (Primary Key)
- > restaurant_id (Foreign key referencing Restaurant (restaurant_id))
- > name
- > description
- > price
- > category

4. Order_Item:

- order_id (Primary Key and Foreign Key referencing Orders (order_id))
- item_id (Primary Key and Foreign Key referencing Menu_Item
 (item_id))
- > quantity
- > price

5. Payment:

- payment_id (Primary Key)
- order_id (Foreign Key referencing Orders (order_id))
- > amount
- payment_status
- payment_method

6. Feedback:

- user_id (Primary Key and Foreign Key referencing Users (user_id))
- order_id (Primary Key and Foreign Key referencing Orders (order_id))
- > rating
- > comments

7. Orders:

- order_id (Primary Key)
- user_id (Foreign Key referencing Users (user_id))
- coupon_id (Foreign Key referencing Coupon (coupon_id))
- total_price
- > order_status
- > order_time
- delivery_time

8. Delivery:

- order_id (Primary Key and Foreign Key referencing Orders (order_id))
- delivery_person_id (Foreign Key referencing Delivery_Person (delivery_person_id))
- delivery_status
- delivery_time

9. Security:

- order_id (Primary Key and Foreign Key referencing Orders (order_id))
- payment_id (Foreign Key referencing Payment (payment_id))
- authentication_token
- encrypted_payment_details

10. Geolocation:

- geolocation_id (Primary Key)
- user_id (Foreign Key referencing Users (user_id))
- > latitude
- > longitude
- > timestamp

11. Notification:

- tracking_id (Primary Key)
- geolocation_id (Foreign Key referencing Geolocation (geolocation_id))
- > message
- > timestamp

12. Real_Time_Tracking:

- tracking_id (Primary Key)
- order_id (Foreign Key referencing Orders (order_id))
- estimated_time_of_arrival
- current_location_lat
- current_location_lon

13. **Coupon**:

- coupon_id (Primary Key)
- > code
- discount_percentage
- > valid_until

14. Delivery_Person:

- delivery_person_id (Primary Key)
- > name
- > contact_info
- vehicle_type

15. Order_Customization:

- order_id (Primary Key and Foreign Key referencing Orders (order_id))
- restaurant_id (Foreign Key referencing Restaurant (restaurant_id))
- special_requests
- dietary_preferences

Description of the Affiliated Tables

Here lies an explanation of the purpose and function of each table in the **online** food delivery system database:

1. Restaurant

- Purpose: Stores information about restaurants registered on the platform.
- Attributes:
 - o restaurant_id: Unique identifier for each restaurant.
 - o name: Name of the restaurant.
 - o location: Physical address or location details of the restaurant.
 - o contact_info: Contact details (e.g., phone number, email).

2. Menu_Item

- Purpose: Contains details of menu items offered by restaurants.
- Attributes:
 - $\circ \quad item_id: \ Unique \ identifier \ for \ each \ menu \ item.$
 - o restaurant_id: Links the menu item to a specific restaurant.

- o name: Name of the menu item (e.g., "Texas Barbecue Chicken Pizza").
- o description: Details or ingredients of the menu item.
- o price: Price of the menu item.
- o category: Category or type of the item (e.g., desserts, mains).

3. Users

- Purpose: Stores details of users (customers) on the platform.
- Attributes:
 - user_id: Unique identifier for each user.
 - o name: Full name of the user.
 - o email: User's email address.
 - o phone: Contact phone number.
 - o delivery_address: Default delivery address for the user.

4. Orders

- Purpose: Tracks order details placed by users.
- Attributes:
 - order_id: Unique identifier for each order.
 - o user_id: Links the order to the user who placed it.
 - o coupon_id: Tracks any applied discount or promotion.
 - o total_price: Total price of the order after discounts.
 - o order_status: Current status of the order (e.g., pending, completed).
 - o order_time: Timestamp when the order was placed.
 - o delivery_time: Expected or actual delivery time.

5. Order_Item

- Purpose: Tracks the individual items in an order.
- Attributes:
 - o order_id: Links the items to a specific order.
 - o item_id: Tracks the specific menu items in the order.
 - o quantity: Number of each item ordered.
 - \circ price: Total price of the specific item (quantity \times unit price).

6. Order_Customization

- *Purpose:* Tracks special requests or dietary preferences for an order.
- Attributes:
 - o order_id: Links customization to a specific order.
 - restaurant_id: Links the customization to a restaurant.
 - o special_requests: Any additional customer instructions (e.g., "extra cheese").
 - o dietary_preferences: Special dietary needs (e.g., vegan, gluten-free).

7. Payment

- Purpose: Manages payment-related information for each order.
- Attributes:
 - o payment_id: Unique identifier for each payment.
 - o order_id: Links the payment to a specific order.
 - o amount: Amount paid by the user.
 - o payment_status: Status of the payment (e.g., successful, pending).
 - o payment_method: Mode of payment (e.g., credit card, PayPal).

8. Security

- Purpose: Handles secure payment information and authorization.
- Attributes:
 - o order_id: Links the security details to an order.
 - o payment_id: Tracks the associated payment for added security.
 - o authentication_token: Token for verifying payment authenticity.
 - o encrypted_payment_details: Encrypted payment data for security.

9. Delivery

- Purpose: Tracks delivery-related details for each order.
- Attributes:
 - o order_id: Links delivery information to an order.
 - o delivery_person_id: Tracks the person assigned to deliver the order.
 - o delivery_status: Current delivery status (e.g., on the way, delivered).
 - o delivery_time: Actual time of delivery.

10. Delivery_Person

- Purpose: Stores details of delivery personnel.
- Attributes:
 - o delivery_person_id: Unique identifier for each delivery person.
 - o name: Name of the delivery person.
 - o contact_info: Contact details of the delivery person.
 - o vehicle_type: Type of vehicle used for delivery (e.g., bike, car).

11. Feedback

- Purpose: Captures user feedback on orders and services.
- Attributes:
 - user_id: Links the feedback to a specific user.
 - o order_id: Links the feedback to a specific order.
 - o rating: Numerical rating given by the user (e.g., 1-5).
 - o comments: Additional comments or reviews from the user.

12. Geolocation

- **Purpose:** Tracks user or delivery person locations for navigation and tracking.
- Attributes:
 - o geolocation_id: Unique identifier for geolocation data.
 - o user_id: Links location to a specific user.
 - o latitude: Latitude coordinates of the location.

- o longitude: Longitude coordinates of the location.
- o timestamp: Time when the location was recorded.

13. Notification

- Purpose: Manages notifications for users or delivery personnel.
- Attributes:
 - tracking_id: Unique identifier for each notification.
 - o geolocation_id: Links notification to location data.
 - o message: Notification content (e.g., "Your order is on the way").
 - o timestamp: Time when the notification was sent.

14. Real_Time_Tracking

- *Purpose:* Provides real-time updates on order delivery status.
- Attributes:
 - o tracking_id: Unique identifier for tracking details.
 - o order_id: Links tracking information to a specific order.
 - o estimated_time_of_arrival: ETA for the delivery.
 - o current_location_lat: Current latitude of the delivery person.
 - o current_location_lon: Current longitude of the delivery person.

15. Coupon

- Purpose: Tracks discount codes and promotions.
- Attributes:
 - o coupon_id: Unique identifier for each coupon.
 - o code: Coupon code entered by the user.
 - o discount_percentage: Percentage discount offered by the coupon.
 - o valid_until: Expiration date of the coupon.

Primary Keys in Each Table

- 1. **User (user_id):** Chosen as the primary key because it uniquely identifies each user.
- 2. **Restaurant (restaurant_id):** Chosen as the primary key because it uniquely identifies each restaurant.
- 3. **Menu_Item (item_id):** Chosen as the primary key because it uniquely identifies each menu item.
- 4. **Coupon (coupon_id):** Chosen as the primary key because it uniquely identifies each coupon.
- 5. Orders (order_id): Chosen as the primary key because it uniquely identifies each orders.
- 6. Order_Item (order_item_id): Chosen as the primary key because it uniquely identifies each order item.
- 7. **Payment (payment_id):** Chosen as the primary key because it uniquely identifies each payment.
- 8. **Delivery_Person (delivery_person_id):** Chosen as the primary key because it uniquely identifies each delivery person.
- 9. **Delivery** (delivery_id): Chosen as the primary key because it uniquely identifies each delivery.
- 10. **Feedback (feedback_id):** Chosen as the primary key because it uniquely identifies each feedback.
- 11. **Notification (notification_id):** Chosen as the primary key because it uniquely identifies each notification.
- 12. **Order_Customization (customization_id):** Chosen as the primary key because it uniquely identifies each order customization.
- 13. **Geolocation (geolocation_id):** Chosen as the primary key because it uniquely identifies each geolocation.
- 14. **Security (security_id):** Chosen as the primary key because it uniquely identifies each security.
- 15. **Real_Time_Tracking (tracking_id):** Chosen as the primary key because it uniquely identifies each real time tracking.

Foreign Keys in Each Table

- 1. **User**: There is no foreign key.
- 2. **Restaurant:** There is no foreign key.
- 3. **Menu_Item** (restaurant_id): The attribute 'restaurant id' is foreign key.
- 4. **Coupon:** There is no foreign key.
- 5. **Orders** (user_id, coupon_id): The attributes 'user_id, coupon_id' are foreign keys.
- 6. **Order_Item** (**order_id**, **item_id**): The attributes 'order_id, item_id' are foreign keys.
- 7. **Payment** (order_id): The attribute 'order id' is foreign key.
- 8. **Delivery_Person:** There is no foreign key.
- 9. **Delivery (order_id, delivery_person_id):** The attributes 'order_id, delivery person id' are foreign keys.
- 10. **Feedback (user_id, order_id):** The attributes 'user_id, order_id' are foreign keys.
- 11. **Notification (tracking_id, geolocation_id):** The attributes 'tracking_id, geolocation_id are foreign keys.
- 12. **Order_Customization (order_id, restaurant_id):** The attributes 'order_id, restaurant id' are foreign keys.
- 13. **Geolocation (user_id):** The attribute 'user_id' is foreign key.
- 14. **Security (order_id, payment_id):** The attributes 'order_id, payment_id' are foreign keys.
- 15. Real_Time_Tracking (order_id): The attribute 'order_id' is foreign key.

Entity Relationship

1. Users and Orders (One-to-Many)

- Entity name: Users (strong entity) & orders (strong entity)
- Relationship name: User_order
- Relationship type: One-to-Many (1:N)
- Participation: Partial and total.
- Each user can place multiple orders, but each order belongs to one user.

2. Orders and Coupons (any-to-One)

- Entity name: Orders (strong entity) & coupon (strong entity)
- Relationship name: Coupon_order
- Relationship type: Many-to-one(1:N)
- Participation: Partial for both entities.
- Multiple orders can use the same coupon, but each order can apply only one coupon.

3. Restaurant and Menu_Item (One-to-Many)

- Entity name: Restaurant (strong entity) & menu_item (strong entity)
- Relationship name: Rest_menu
- Relationship type: One-to-Many (1:N)
- Participation: Partial and total.
- Each restaurant offers multiple menu items, but each menu item belongs to one restaurant.

4. Orders and Payment (One-to-One)

- Entity name: Orders (strong entity) & payment (strong entity)
- Relationship name: Has
- Relationship type: One-to-One
- Participation: Total for both entities.
- Each order has one payment.

5. Orders and Real_Time_Tracking (One-to-One)

- Entity name: Orders (strong entity) & Real_Time_Tracking (strong entity)
- Relationship name: Track_order
- Relationship type: One-to-One
- Participation: Total for both entities.
- Each order can have one tracking record.

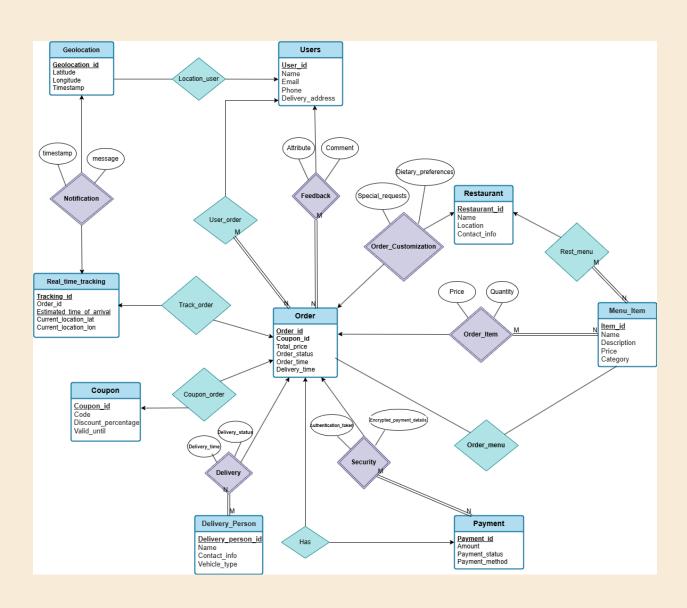
6. Users and Geolocation (One-to-One)

- Entity name: Users (strong entity) & geolocation (strong entity)
- Relationship name: Location_user
- Relationship type: One-to-One
- Participation: Total for both entities.
- Each user can have one geolocation record.

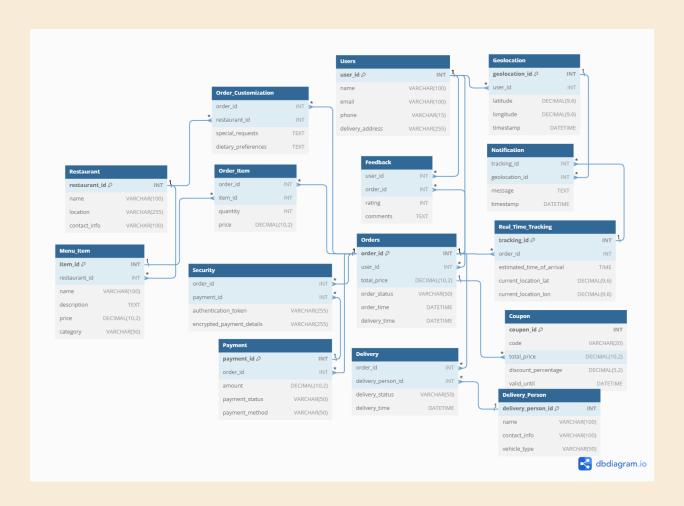
7. Orders and Menu_item (Many-to-Many)

- Entity name: Orders (strong entity) & Menu_item (strong entity)
- Relationship name: Order_menu
- Relationship type: Many-to-Many
- Participation: Total for both entities.
- An order can have multiple menu items, and a menu item cab belong to multiple orders.

E-R Diagram for Online Food Delivery System



Schema Diagram for Online Food Delivery System



Implementing the Queries

Insertion:

1. Insert into Users:

⊞ Results								
	user_id	name	email	phone	delivery_address			
1	22201	John Doe	johndoe@example.com	1234567890	123 Elm St Springfield			
2	22202	Jane Smith	janesmith@example.com	9876543210	456 Oak St Rivertown			
3	22203	Robert Brown	robertbrown@example.com	5551234567	789 Pine St Lakeside			
4	22204	Alice Johnson	alicej@example.com	6549873210	101 Maple St Springfield			
5	22205	Charlie White	charliew@example.com	1112223333	202 Birch St Rivertown			
6	22206	Sophia Green	sophiag@example.com	4445556666	303 Cedar St Lakeside			
7	22207	Liam Black	liamb@example.com	7778889999	404 Spruce St Springfield			
8	22208	Olivia Brown	oliviab@example.com	1010101010	505 Willow St Rivertown			
9	22209	Ethan Blue	ethanb@example.com	1212121212	606 Pineapple St Lakeside			
10	22210	Emma Yellow	emmay@example.com	2323232323	707 Orange St Springfield			

2. Insert into Restaurant:

	restaurant_id	name	location	contact_info
1	21201	Pizza Palace	123 Pizza Ave Springfield	555-0001
2	21202	Burger Queen	456 Burger Rd Rivertown	555-0002
3	21203	Sushi Express	789 Sushi Blvd Lakeside	555-0003
4	21204	Taco Town	101 Taco St Springfield	555-0004
5	21205	Pasta Place	202 Pasta Rd Rivertown	555-0005
6	21206	Chicken Cen	303 Chicken Blvd Lakes	555-0006
7	21207	Seafood Sh	404 Seafood Ave Sprin	555-0007
8	21208	Steakhouse	505 Steak St Rivertown	555-0008
9	21209	Vegan Village	606 Vegan Blvd Lakeside	555-0009
10	21210	Ice Cream Is	707 IceCream St Spring	555-0010

3. Insert into Menu Item:

	item_id	restaurant_id	name	description	price	category
1	1	21201	Margherita Pizza	Classic pizza with mozzarella and tomato sauce	550.00	Pizza
2	2	21201	Pepperoni Pizza	Pizza with pepperoni slices	500.00	Pizza
3	3	21202	Cheeseburger	Burger with cheese, lettuce, and tomato	199.00	Burger
4	4	21202	Bacon Burger	Burger with crispy bacon	150.00	Burger
5	5	21203	California Roll	Sushi roll with avocado and crab	225.00	Sushi
6	6	21203	Spicy Tuna Roll	Sushi roll with tuna and spicy mayo	210.00	Sushi
7	7	21204	Beef Taco	Taco with seasoned beef	750.00	Mexican
8	8	21204	Chicken Taco	Taco with grilled chicken	550.00	Mexican
9	9	21205	Spaghetti Bolo	Pasta with meat sauce	600.00	Italian
10	10	21205	Fettuccine Alfre	Creamy pasta with parmesan	499.00	Italian

4. Insert into Coupon:

	coupon_id	code	discount_percentage	valid_until
1	98370	PIZZA10	10.00	2024-11-30 00:00:00.000
2	98371	BURGER5	5.00	2024-11-15 00:00:00.000
3	98372	SUSHI15	15.00	2024-12-01 00:00:00.000
4	98373	TACO20	20.00	2024-11-25 00:00:00.000
5	98374	PASTA25	25.00	2024-11-20 00:00:00.000
6	98375	CHICKE	30.00	2024-11-27 00:00:00.000
7	98376	SEAFOO	35.00	2024-12-05 00:00:00.000
8	98377	STEAK40	40.00	2024-12-10 00:00:00.000
9	98378	VEGAN50	50.00	2024-12-15 00:00:00.000
10	98379	ICECREA	5.00	2024-12-20 00:00:00.000

5. Insert into Orders:

	order_id	user_id	coupon_id	total_price	order_status	order_time	delivery_time
1	68541	22201	98370	110.00	Delivered	2024-11-01 12:30:00.000	2024-11-01 12:50:00.000
2	68542	22202	98371	25.00	Preparing	2024-11-02 13:00:00.000	2024-11-02 13:30:00.000
3	68543	22203	98372	101.25	Out for Del	2024-11-03 14:00:00.000	2024-11-03 14:30:00.000
4	68544	22204	98373	300.00	Delivered	2024-11-04 15:00:00.000	2024-11-04 15:20:00.000
5	68545	22205	98374	300.00	Cancelled	2024-11-05 16:00:00.000	2024-11-05 16:30:00.000
6	68546	22206	98375	252.00	Preparing	2024-11-06 17:00:00.000	2024-11-06 17:30:00.000
7	68547	22207	98376	157.50	Out for Del	2024-11-07 18:00:00.000	2024-11-07 18:30:00.000
8	68548	22208	98377	1100.00	Delivered	2024-11-08 19:00:00.000	2024-11-08 19:30:00.000
9	68549	22209	98378	748.50	Preparing	2024-11-09 20:00:00.000	2024-11-09 20:30:00.000
10	68550	22210	98379	19.90	Out for Del	2024-11-10 21:00:00.000	2024-11-10 21:30:00.000

6. Insert into Order Item:

	order_item_id	order_id	item_id	quantity	price
1	34561	68541	1	2	1100.00
2	34562	68542	2	1	500.00
3	34563	68543	5	3	675.00
4	34564	68544	7	2	1500.00
5	34565	68545	9	2	1200.00
6	34566	68546	6	4	840.00
7	34567	68547	4	3	450.00
8	34568	68548	8	5	2750.00
9	34569	68549	10	3	1497.00
10	34570	68550	3	2	398.00

7. Insert into Payment:

	payment_id	order_id	amount	payment_status	payment_method
1	12351	68541	1100.00	Completed	Credit Card
2	12352	68542	675.00	Pending	Debit Card
3	12353	68543	675.00	Completed	PayPal
4	12354	68544	1500.00	Completed	Cash
5	12355	68545	1200.00	Failed	Credit Card
6	12356	68546	840.00	Completed	Bank Transfer
7	12357	68547	450.00	Pending	PayPal
8	12358	68548	2750.00	Completed	Credit Card
9	12359	68549	1497.00	Completed	Debit Card
10	12360	68550	398.00	Failed	PayPal

8. Insert into Delivery Person:

	delivery_person_id	name	contact_info	vehicle_type
1	12461	Alice Johnson	555-1231	Car
2	12462	Bob Miller	555-1232	Motorbike
3	12463	Charlie Ada	555-1233	Bicycle
4	12464	Daisy Cooper	555-1234	Scooter
5	12465	Evan Brown	555-1235	Car
6	12466	Fiona Black	555-1236	Van
7	12467	George White	555-1237	Motorbike
8	12468	Hannah Gray	555-1238	Car
9	12469	lan Green	555-1239	Bicycle
10	12470	Jill Taylor	555-1240	Truck

9. Insert into Delivery:

	delivery_id	order_id	delivery_person_id	delivery_status	delivery_time
1	67051	68541	12461	Delivered	2024-11-01 12:50:00.000
2	67052	68542	12462	Out for Delivery	2024-11-02 13:25:00.000
3	67053	68543	12463	Delivered	2024-11-03 14:10:00.000
4	67054	68544	12464	Preparing	2024-11-04 12:45:00.000
5	67055	68545	12465	Out for Delivery	2024-11-05 13:30:00.000
6	67056	68546	12466	Delivered	2024-11-06 15:20:00.000
7	67057	68547	12467	Delivered	2024-11-07 14:15:00.000
8	67058	68548	12468	Out for Delivery	2024-11-08 16:00:00.000
9	67059	68549	12469	Delivered	2024-11-09 12:30:00.000
10	67060	68550	12470	Preparing	2024-11-10 11:45:00.000

10. Insert into Feedback:

	feedback_id	user_id	order_id	rating	comments
1	83061	22201	68541	5	Amazing service, fast delivery!
2	83062	22202	68542	4	Good food but arrived late.
3	83063	22203	68543	3	Food quality was average.
4	83064	22204	68544	5	Loved it, very quick delivery!
5	83065	22205	68545	2	Cold food, disappointed.
6	83066	22206	68546	4	Great food, delivery person
7	83067	22207	68547	5	Excellent, everything was pe
8	83068	22208	68548	3	Okay experience, nothing s
9	83069	22209	68549	4	Food was fresh and tasty.
10	83070	22210	68550	1	Terrible, wrong order deliver

11. Insert into Real Time Tracking:

	tracking_id	order_id	estimated_time_of_arrival	current_location_lat	current_location_lon
1	30001	68541	00:15:00.0000000	37.774929	-122.419416
2	30002	68542	00:20:00.0000000	34.052235	-118.243683
3	30003	68543	00:30:00.0000000	40.712776	-74.005974
4	30004	68544	00:10:00.0000000	51.507351	-0.127758
5	30005	68545	00:25:00.0000000	48.856613	2.352222
6	30006	68546	00:35:00.0000000	35.689487	139.691711
7	30007	68547	00:12:00.0000000	55.755825	37.617298
8	30008	68548	00:40:00.0000000	-33.868820	151.209290
9	30009	68549	00:18:00.0000000	-23.550520	-46.633308
10	30010	68550	00:22:00.0000000	28.613939	77.209023

12. Insert into Geolocation:

	geolocation_id	user_id	latitude	longitude	timestamp
1	10001	22201	37.774929	-122.419416	2024-11-01 12:30:00.000
2	10002	22202	34.052235	-118.243683	2024-11-02 13:20:00.000
3	10003	22203	40.712776	-74.005974	2024-11-03 14:15:00.000
4	10004	22204	51.507351	-0.127758	2024-11-04 15:00:00.000
5	10005	22205	48.856613	2.352222	2024-11-05 16:10:00.000
6	10006	22206	35.689487	139.691711	2024-11-06 17:25:00.000
7	10007	22207	55.755825	37.617298	2024-11-07 18:45:00.000
8	10008	22208	-33.8688	151.209290	2024-11-08 19:00:00.000
9	10009	22209	-23.5505	-46.633308	2024-11-09 20:30:00.000
10	10010	22210	28.613939	77.209023	2024-11-10 21:15:00.000

13. Insert into Notification:

	notification_id	tracking_id	geolocation_id	message	timestamp
1	73731	30001	10001	Your pizza is on the way!	2024-11-01 12:30:00.000
2	73732	30002	10002	Your order is being prepared.	2024-11-02 13:10:00.000
3	73733	30003	10003	Your sushi will arrive soon.	2024-11-03 14:05:00.000
4	73734	30004	10004	Your tacos are being cooked.	2024-11-04 12:15:00.000
5	73735	30005	10005	Your order is out for delivery.	2024-11-05 13:20:00.000
6	73736	30006	10006	Your roll is delivered!	2024-11-06 15:10:00.000
7	73737	30007	10007	Order successfully delivered!	2024-11-07 14:10:00.000
8	73738	30008	10008	Your delivery is on its way.	2024-11-08 16:05:00.000
9	73739	30009	10009	Enjoy your pasta!	2024-11-09 12:35:00.000
10	73740	30010	10010	Your cheeseburger is being	2024-11-10 11:50:00.000

14. Insert into Order Customization:

	customization_id	order_id	restaurant_id	special_requests	dietary_preferences
1	53741	68541	21201	Extra cheese on pizza	No dietary restrictions
2	53742	68542	21202	No onions on burger	Vegetarian
3	53743	68543	21203	Extra soy sauce with	Gluten-free
4	53744	68544	21204	Mild spice in tacos	Halal
5	53745	68545	21205	No garlic in pasta	Vegan
6	53746	68546	21206	More wasabi with roll	No peanuts
7	53747	68547	21207	Well-done patty in b	No dietary restrictions
8	53748	68548	21208	Extra lime with tacos	Vegetarian
9	53749	68549	21209	No salt in Alfredo sa	Low sodium
10	53750	68550	21210	Add jalapenos to ch	No dietary restrictions

15. Insert into Security:

	security_id	order_id	payment_id	authentication_token	encrypted_payment_details
1	20001	68541	12351	aBc123XyZ	ENCRYPTED_PAY_001
2	20002	68542	12352	dEf456MnO	ENCRYPTED_PAY_002
3	20003	68543	12353	gHi789PqR	ENCRYPTED_PAY_003
4	20004	68544	12354	jKl012StU	ENCRYPTED_PAY_004
5	20005	68545	12355	mNo345VwX	ENCRYPTED_PAY_005
6	20006	68546	12356	pQr678YzA	ENCRYPTED_PAY_006
7	20007	68547	12357	sTu901BcD	ENCRYPTED_PAY_007
8	20008	68548	12358	vWx234EfG	ENCRYPTED_PAY_008
9	20009	68549	12359	yZ1234HiJ	ENCRYPTED_PAY_009
10	20010	68550	12360	kLm567NoP	ENCRYPTED_PAY_010

Arithmetic Operation Based Query:

1. Arithmetic operation (5% discount on the total price)-SELECT order_id, (total_price * 0.05)"Payment"

FROM orders;

GO

	order_id	Payment
1	68541	5.5000
2	68542	1.2500
3	68543	5.0625
4	68544	15.0000
5	68545	15.0000
6	68546	12.6000
7	68547	7.8750
8	68548	55.0000
9	68549	37.4250
10	68550	0.9950

2. String Function (Name starts with 'J')-

SELECT * FROM Users WHERE name like 'J%'
GO

	user_id	name	email	phone	delivery_address
1		John Doe	johndoe@example.com	1234567890	123 Elm St Springfield
2	22202	Jane Smith	janesmith@example.com	9876543210	456 Oak St Rivertown

3. Name do not start with 'R'-

SELECT * FROM Users WHERE name like '[^R]%'
GO

	user_id	name	email	phone	delivery_address
1	22201	John Doe	johndoe@example.com	1234567890	123 Elm St Springfield
2	22202	Jane Smith	janesmith@example.com	9876543210	456 Oak St Rivertown
3	22204	Alice Johnson	alicej@example.com	6549873210	101 Maple St Springfield
4	22205	Charlie White	charliew@example.com	1112223333	202 Birch St Rivertown
5	22206	Sophia Green	sophiag@example.com	4445556666	303 Cedar St Lakeside
6	22207	Liam Black	liamb@example.com	7778889999	404 Spruce St Springfield
7	22208	Olivia Brown	oliviab@example.com	1010101010	505 Willow St Rivertown
8	22209	Ethan Blue	ethanb@example.com	1212121212	606 Pineapple St Lakeside
9	22210	Emma Yellow	emmay@example.com	2323232323	707 Orange St Springfield

4. Condition Based Queries (Find out which item can be budget friendly)-SELECT name FROM Menu WHERE price > 8.99
GO



5. Condition Based Queries (Payment Amount between 500 to 1000)-SELECT * FROM Payment WHERE amount BETWEEN 500 and 1000 GO

	payment id	order id	amount	payment status	payment method
1	12352	68542	675.00	Pending	Debit Card
2	12353	68543	675.00	Completed	PayPal
3	12356	68546	840.00	Completed	Bank Transfer

6. Condition Based Queries (Show payment status)-

SELECT payment_status, payment_method FROM payment WHERE payment_method IN('PayPal', 'Cash', 'Credit Card') GO

	payment_status	payment_method
1	Completed	Credit Card
2	Completed	PayPal
3	Completed	Cash
4	Failed	Credit Card
5	Pending	PayPal
6	Completed	Credit Card
7	Failed	PayPal

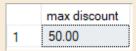
7. Aggregate Function based Queries (Average)-

SELECT AVG (price) AS [avg price] FROM Menu_Item WHERE category = 'Pizza'
GO

	avg price
1	525.000000

8. Aggregate Function based Queries (Maximum)-

SELECT MAX (discount_percentage) AS [max discount] FROM Coupon GO



9. Count-

SELECT COUNT(category) FROM Menu_Item
GO

	(No column name)
1	10

10. Group by-

---How many ways can the order be delivered?

SELECT vehicle_type FROM Delivery_Person GROUP BY vehicle_type

GO



11. Order by-

---Ordering based on the restaurant's name SELECT name FROM Restaurant ORDER BY Desc GO



12. Group by, Order by-

---How much is the total cost of food in each category?

SELECT category, SUM (price) FROM Menu_Item GROUP BY category

ORDER BY SUM (price) ASC

GO



13. Double Grouping-

SELECT payment_method, payment_status FROM payment GROUP BY payment_method, payment_status

GO

	payment_method	payment_status
1	Bank Transfer	Completed
2	Cash	Completed
3	Credit Card	Completed
4	Credit Card	Failed
5	Debit Card	Completed
6	Debit Card	Pending
7	PayPal	Completed
8	PayPal	Failed
9	PayPal	Pending

14. Cross Join-

SELECT * FROM Order_Item, Orders GO

	order_item_id	order_id	item_id	quantity	price	order_id	user_id	coupon_id	total_price	order_status	order_time	delivery_time
1	34561	68541	1	2	1100.00	68541	22201	98370	110.00	Delivered	2024-11-01 12:30:00.000	2024-11-01 12:50:00.000
2	34562	68542	2	1	500.00	68541	22201	98370	110.00	Delivered	2024-11-01 12:30:00.000	2024-11-01 12:50:00.000
3	34563	68543	5	3	675.00	68541	22201	98370	110.00	Delivered	2024-11-01 12:30:00.000	2024-11-01 12:50:00.000
4	34564	68544	7	2	1500.00	68541	22201	98370	110.00	Delivered	2024-11-01 12:30:00.000	2024-11-01 12:50:00.000
5	34565	68545	9	2	1200.00	68541	22201	98370	110.00	Delivered	2024-11-01 12:30:00.000	2024-11-01 12:50:00.000
6	34566	68546	6	4	840.00	68541	22201	98370	110.00	Delivered	2024-11-01 12:30:00.000	2024-11-01 12:50:00.000
7	34567	68547	4	3	450.00	68541	22201	98370	110.00	Delivered	2024-11-01 12:30:00.000	2024-11-01 12:50:00.000
8	34568	68548	8	5	2750.00	68541	22201	98370	110.00	Delivered	2024-11-01 12:30:00.000	2024-11-01 12:50:00.000
9	34569	68549	10	3	1497.00	68541	22201	98370	110.00	Delivered	2024-11-01 12:30:00.000	2024-11-01 12:50:00.000
10	34570	68550	3	2	398.00	68541	22201	98370	110.00	Delivered	2024-11-01 12:30:00.000	2024-11-01 12:50:00.000
11	34561	68541	1	2	1100.00	68542	22202	98371	25.00	Preparing	2024-11-02 13:00:00.000	2024-11-02 13:30:00.000
12	34562	68542	2	1	500.00	68542	22202	98371	25.00	Preparing	2024-11-02 13:00:00.000	2024-11-02 13:30:00.000
13	34563	68543	5	3	675.00	68542	22202	98371	25.00	Preparing	2024-11-02 13:00:00.000	2024-11-02 13:30:00.000
14	34564	68544	7	2	1500.00	68542	22202	98371	25.00	Preparing	2024-11-02 13:00:00.000	2024-11-02 13:30:00.000
15	34565	68545	9	2	1200.00	68542	22202	98371	25.00	Preparing	2024-11-02 13:00:00.000	2024-11-02 13:30:00.000
16	34566	68546	6	4	840.00	68542	22202	98371	25.00	Preparing	2024-11-02 13:00:00.000	2024-11-02 13:30:00.000
17	34567	68547	4	3	450.00	68542	22202	98371	25.00	Preparing	2024-11-02 13:00:00.000	2024-11-02 13:30:00.000
18	34568	68548	8	5	2750.00	68542	22202	98371	25.00	Preparing	2024-11-02 13:00:00.000	2024-11-02 13:30:00.000
19	34569	68549	10	3	1497.00	68542	22202	98371	25.00	Preparing	2024-11-02 13:00:00.000	2024-11-02 13:30:00.000
20	34570	68550	3	2	398.00	68542	22202	98371	25.00	Preparing	2024-11-02 13:00:00.000	2024-11-02 13:30:00.000
21	34561	68541	1	2	1100.00	68543	22203	98372	101.25	Out for Del	2024-11-03 14:00:00.000	2024-11-03 14:30:00.000
22	34562	68542	2	1	500.00	68543	22203	98372	101.25	Out for Del	2024-11-03 14:00:00.000	2024-11-03 14:30:00.000
23	34563	68543	5	3	675.00	68543	22203	98372	101.25	Out for Del	2024-11-03 14:00:00.000	2024-11-03 14:30:00.000
24	34564	68544	7	2	1500.00	68543	22203	98372	101.25	Out for Del	2024-11-03 14:00:00.000	2024-11-03 14:30:00.000
25	34565	68545	9	2	1200.00	68543	22203	98372	101.25	Out for Del	2024-11-03 14:00:00.000	2024-11-03 14:30:00.000
26	34566	68546	6	4	840.00	68543	22203	98372	101.25	Out for Del	2024-11-03 14:00:00.000	2024-11-03 14:30:00.000
27	34567	68547	4	3	450.00	68543	22203	98372	101.25	Out for Del	2024-11-03 14:00:00.000	2024-11-03 14:30:00.000
28	34568	68548	8	5	2750.00	68543	22203	98372	101.25	Out for Del	2024-11-03 14:00:00.000	2024-11-03 14:30:00.000
29	34569	68549	10	3	1497.00	68543	22203	98372	101.25	Out for Del	2024-11-03 14:00:00.000	2024-11-03 14:30:00.000
30	34570	68550	3	2	398.00	68543	22203	98372	101.25	Out for Del	2024-11-03 14:00:00.000	2024-11-03 14:30:00.000
31	34561	68541	1	2	1100.00	68544	22204	98373	300.00	Delivered	2024-11-04 15:00:00.000	2024-11-04 15:20:00.000
32	34562	68542	2	1	500.00	68544	22204	98373	300.00	Delivered	2024-11-04 15:00:00.000	2024-11-04 15:20:00.000
33	34563	68543	5	3	675.00	68544	22204	98373	300.00	Delivered	2024-11-04 15:00:00.000	2024-11-04 15:20:00.000
34	34564	68544	7	2	1500.00	68544	22204	98373	300.00	Delivered	2024-11-04 15:00:00.000	2024-11-04 15:20:00.000

35	34565	68545	9	2	1200.00	68544	22204	98373	300.00	Delivered	2024-11-04 15:00:00.000	2024-11-04 15:20:00.000
36	34566	68546	6	4	840.00	68544	22204	98373	300.00	Delivered	2024-11-04 15:00:00.000	2024-11-04 15:20:00.000
37	34567	68547	4	3	450.00	68544	22204	98373	300.00	Delivered	2024-11-04 15:00:00.000	2024-11-04 15:20:00.000
38	34568	68548	8	5	2750.00	68544	22204	98373	300.00	Delivered	2024-11-04 15:00:00.000	2024-11-04 15:20:00.000
39	34569	68549	10	3	1497.00	68544	22204	98373	300.00	Delivered	2024-11-04 15:00:00.000	2024-11-04 15:20:00.000
40	34570	68550	3	2	398.00	68544	22204	98373	300.00	Delivered	2024-11-04 15:00:00.000	2024-11-04 15:20:00.000
41	34561	68541	1	2	1100.00	68545	22205	98374	300.00	Cancelled	2024-11-05 16:00:00.000	2024-11-05 16:30:00.000
42	34562	68542	2	1	500.00	68545	22205	98374	300.00	Cancelled	2024-11-05 16:00:00.000	2024-11-05 16:30:00.000
43	34563	68543	5	3	675.00	68545	22205	98374	300.00	Cancelled	2024-11-05 16:00:00.000	2024-11-05 16:30:00.000
44	34564	68544	7	2	1500.00	68545	22205	98374	300.00	Cancelled	2024-11-05 16:00:00.000	2024-11-05 16:30:00.000
45	34565	68545	9	2	1200.00	68545	22205	98374	300.00	Cancelled	2024-11-05 16:00:00.000	2024-11-05 16:30:00.000
46	34566	68546	6	4	840.00	68545	22205	98374	300.00	Cancelled	2024-11-05 16:00:00.000	2024-11-05 16:30:00.000
47	34567	68547	4	3	450.00	68545	22205	98374	300.00	Cancelled	2024-11-05 16:00:00.000	2024-11-05 16:30:00.000
48	34568	68548	8	5	2750.00	68545	22205	98374	300.00	Cancelled	2024-11-05 16:00:00.000	2024-11-05 16:30:00.000
49	34569	68549	10	3	1497.00	68545	22205	98374	300.00	Cancelled	2024-11-05 16:00:00.000	2024-11-05 16:30:00.000
50	34570	68550	3	2	398.00	68545	22205	98374	300.00	Cancelled	2024-11-05 16:00:00.000	2024-11-05 16:30:00.000
51	34561	68541	1	2	1100.00	68546	22206	98375	252.00	Preparing	2024-11-06 17:00:00.000	2024-11-06 17:30:00.000
52	34562	68542	2	1	500.00	68546	22206	98375	252.00	Preparing	2024-11-06 17:00:00.000	2024-11-06 17:30:00.000
53	34563	68543	5	3	675.00	68546	22206	98375	252.00	Preparing	2024-11-06 17:00:00.000	2024-11-06 17:30:00.000
54	34564	68544	7	2	1500.00	68546	22206	98375	252.00	Preparing	2024-11-06 17:00:00.000	2024-11-06 17:30:00.000
55	34565	68545	9	2	1200.00	68546	22206	98375	252.00	Preparing	2024-11-06 17:00:00.000	2024-11-06 17:30:00.000
56	34566	68546	6	4	840.00	68546	22206	98375	252.00	Preparing	2024-11-06 17:00:00.000	2024-11-06 17:30:00.000
57	34567	68547	4	3	450.00	68546	22206	98375	252.00	Preparing	2024-11-06 17:00:00.000	2024-11-06 17:30:00.000
58	34568	68548	8	5	2750.00	68546	22206	98375	252.00	Preparing	2024-11-06 17:00:00.000	2024-11-06 17:30:00.000
59	34569	68549	10	3	1497.00	68546	22206	98375	252.00	Preparing	2024-11-06 17:00:00.000	2024-11-06 17:30:00.000
60	34570	68550	3	2	398.00	68546	22206	98375	252.00	Preparing	2024-11-06 17:00:00.000	2024-11-06 17:30:00.000
61	34561	68541	1	2	1100.00	68547	22207	98376	157.50	Out for Del	2024-11-07 18:00:00.000	2024-11-07 18:30:00.000
62	34562	68542	2	1	500.00	68547	22207	98376	157.50	Out for Del	2024-11-07 18:00:00.000	2024-11-07 18:30:00.000
63	34563	68543	5	3	675.00	68547	22207	98376	157.50	Out for Del	2024-11-07 18:00:00.000	2024-11-07 18:30:00.000
64	34564	68544	7	2	1500.00	68547	22207	98376	157.50	Out for Del	2024-11-07 18:00:00.000	2024-11-07 18:30:00.000
65	34565	68545	9	2	1200.00	68547	22207	98376	157.50	Out for Del	2024-11-07 18:00:00.000	2024-11-07 18:30:00.000
66	34566	68546	6	4	840.00	68547	22207	98376	157.50	Out for Del	2024-11-07 18:00:00.000	2024-11-07 18:30:00.000
67	34567	68547	4	3	450.00	68547	22207	98376	157.50	Out for Del	2024-11-07 18:00:00.000	2024-11-07 18:30:00.000
68	34568	68548	8	5	2750.00	68547	22207	98376	157.50	Out for Del	2024-11-07 18:00:00.000	2024-11-07 18:30:00.000
69	34569	68549	10	3	1497.00	68547	22207	98376	157.50	Out for Del	2024-11-07 18:00:00.000	2024-11-07 18:30:00.000
70	34570	68550	3	2	398.00	68547	22207	98376	157.50	Out for Del	2024-11-07 18:00:00.000	2024-11-07 18:30:00.000

71	34561	68541	1	2	1100.00	68548	22208	98377	1100.00	Delivered	2024-11-08 19:00:00.000	2024-11-08 19:30:00.000
72	34562	68542	2	1	500.00	68548	22208	98377	1100.00	Delivered	2024-11-08 19:00:00.000	2024-11-08 19:30:00.000
73	34563	68543	5	3	675.00	68548	22208	98377	1100.00	Delivered	2024-11-08 19:00:00.000	2024-11-08 19:30:00.000
74	34564	68544	7	2	1500.00	68548	22208	98377	1100.00	Delivered	2024-11-08 19:00:00.000	2024-11-08 19:30:00.000
75	34565	68545	9	2	1200.00	68548	22208	98377	1100.00	Delivered	2024-11-08 19:00:00.000	2024-11-08 19:30:00.000
76	34566	68546	6	4	840.00	68548	22208	98377	1100.00	Delivered	2024-11-08 19:00:00.000	2024-11-08 19:30:00.000
77	34567	68547	4	3	450.00	68548	22208	98377	1100.00	Delivered	2024-11-08 19:00:00.000	2024-11-08 19:30:00.000
78	34568	68548	8	5	2750.00	68548	22208	98377	1100.00	Delivered	2024-11-08 19:00:00.000	2024-11-08 19:30:00.000
79	34569	68549	10	3	1497.00	68548	22208	98377	1100.00	Delivered	2024-11-08 19:00:00.000	2024-11-08 19:30:00.000
80	34570	68550	3	2	398.00	68548	22208	98377	1100.00	Delivered	2024-11-08 19:00:00.000	2024-11-08 19:30:00.000
81	34561	68541	1	2	1100.00	68549	22209	98378	748.50	Preparing	2024-11-09 20:00:00.000	2024-11-09 20:30:00.000
82	34562	68542	2	1	500.00	68549	22209	98378	748.50	Preparing	2024-11-09 20:00:00.000	2024-11-09 20:30:00.000
83	34563	68543	5	3	675.00	68549	22209	98378	748.50	Preparing	2024-11-09 20:00:00.000	2024-11-09 20:30:00.000
84	34564	68544	7	2	1500.00	68549	22209	98378	748.50	Preparing	2024-11-09 20:00:00.000	2024-11-09 20:30:00.000
85	34565	68545	9	2	1200.00	68549	22209	98378	748.50	Preparing	2024-11-09 20:00:00.000	2024-11-09 20:30:00.000
86	34566	68546	6	4	840.00	68549	22209	98378	748.50	Preparing	2024-11-09 20:00:00.000	2024-11-09 20:30:00.000
87	34567	68547	4	3	450.00	68549	22209	98378	748.50	Preparing	2024-11-09 20:00:00.000	2024-11-09 20:30:00.000
88	34568	68548	8	5	2750.00	68549	22209	98378	748.50	Preparing	2024-11-09 20:00:00.000	2024-11-09 20:30:00.000
89	34569	68549	10	3	1497.00	68549	22209	98378	748.50	Preparing	2024-11-09 20:00:00.000	2024-11-09 20:30:00.000
90	34570	68550	3	2	398.00	68549	22209	98378	748.50	Preparing	2024-11-09 20:00:00.000	2024-11-09 20:30:00.000
91	34561	68541	1	2	1100.00	68550	22210	98379	19.90	Out for Del	2024-11-10 21:00:00.000	2024-11-10 21:30:00.000
92	34562	68542	2	1	500.00	68550	22210	98379	19.90	Out for Del	2024-11-10 21:00:00.000	2024-11-10 21:30:00.000
93	34563	68543	5	3	675.00	68550	22210	98379	19.90	Out for Del	2024-11-10 21:00:00.000	2024-11-10 21:30:00.000
94	34564	68544	7	2	1500.00	68550	22210	98379	19.90	Out for Del	2024-11-10 21:00:00.000	2024-11-10 21:30:00.000
95	34565	68545	9	2	1200.00	68550	22210	98379	19.90	Out for Del	2024-11-10 21:00:00.000	2024-11-10 21:30:00.000
96	34566	68546	6	4	840.00	68550	22210	98379	19.90	Out for Del	2024-11-10 21:00:00.000	2024-11-10 21:30:00.000
97	34567	68547	4	3	450.00	68550	22210	98379	19.90	Out for Del	2024-11-10 21:00:00.000	2024-11-10 21:30:00.000
98	34568	68548	8	5	2750.00	68550	22210	98379	19.90	Out for Del	2024-11-10 21:00:00.000	2024-11-10 21:30:00.000
99	34569	68549	10	3	1497.00	68550	22210	98379	19.90	Out for Del	2024-11-10 21:00:00.000	2024-11-10 21:30:00.000
100	34570	68550	3	2	398.00	68550	22210	98379	19.90	Out for Del	2024-11-10 21:00:00.000	2024-11-10 21:30:00.000

15. Natural join with rename operation-

SELECT * FROM Orders AS O, Order_item AS I WHERE O.order_id = I.order_id and order_status = 'Delivered'
GO

	order_id	user_id	coupon_id	total_price	order_status	order_time	delivery_time	order_item_id	order_id	item_id	quantity	price
1	68541	22201	98370	110.00	Delivered	2024-11-01 12:30:00.000	2024-11-01 12:50:00.000	34561	68541	1	2	1100.00
2	68544	22204	98373	300.00	Delivered	2024-11-04 15:00:00.000	2024-11-04 15:20:00.000	34564	68544	7	2	1500.00
3	68548	22208	98377	1100.00	Delivered	2024-11-08 19:00:00.000	2024-11-08 19:30:00.000	34568	68548	8	5	2750.00

16. Distinct-

---find out How many ways can payment be made?

SELECT DISTINCT Payment_method FROM Payment

GO

	Payment_method
1	Bank Transfer
2	Cash
3	Credit Card
4	Debit Card
5	PayPal

17. Update-

UPDATE Delivery_Person
SET name = 'Bunty'
WHERE delivery_person_id = 12462;
SELECT *FROM Delivery_Person
GO

	delivery_person_id	name	contact_info	vehicle_type
1	12461	Alice Johnson	555-1231	Car
2	12462	Bunty	555-1232	Motorbike
3	12463	Charlie Adams	555-1233	Bicycle
4	12464	Daisy Cooper	555-1234	Scooter
5	12465	Evan Brown	555-1235	Car
6	12466	Fiona Black	555-1236	Van
7	12467	George White	555-1237	Motorbike
8	12468	Hannah Gray	555-1238	Car
9	12469	lan Green	555-1239	Bicycle
10	12470	Jill Taylor	555-1240	Truck

18. Set Operation (Union)-

SELECT Payment_id FROM Payment WHERE payment_method =
'PayPal' and payment_status = 'Completed' UNION SELECT
Payment_id FROM Payment WHERE payment_method = 'Debit Card'
and payment_status = 'Pending'
GO

	Payment_id
1	12352
2	12353

19. Set Operation (Intersect)-

SELECT amount FROM Payment WHERE payment_method = 'PayPal' and payment_status = 'Completed' INTERSECT SELECT Payment_id FROM Payment WHERE payment_method 'Debit Card' and payment_status = 'Pending' GO

amount 1 675.00

20. Set Operation (Except)-

SELECT amount FROM Payment WHERE payment_method = 'PayPal' and payment_status = 'Completed' EXCEPT SELECT Payment_id FROM Payment WHERE payment_method 'Debit Card' and payment_status = 'Pending'
GO

amount

21. Aggregate Function (Having)-

SELECT Payment_status, Payment_method, MAX(amount) as
max_amount
FROM Payment
GROUP BY Payment_status, Payment_method HAVING MAX(amount) >
14.99 ORDER BY Payment_status DESC
GO

	Payment_status	Payment_method	max_amount
1	Pending	Debit Card	675.00
2	Pending	PayPal	450.00
3	Failed	Credit Card	1200.00
4	Failed	PayPal	398.00
5	Completed	Bank Transfer	840.00
6	Completed	Cash	1500.00
7	Completed	Credit Card	2750.00
8	Completed	Debit Card	1497.00
9	Completed	PayPal	675.00

22. Set Membership-

SELECT DISTINCT Payment_id
FROM Payment
WHERE payment_method = 'PayPal' and payment_status = 'Completed'
or
Payment_id in (SELECT Payment_id FROM Payment
WHERE payment_method = 'Credit Card' and payment_status =
'Completed');
GO

	Payment_id
1	12351
2	12353
3	12358

23. Set Membership-

SELECT DISTINCT vehicle_type FROM Delivery_Person WHERE vehicle_type not in ('Car') GO

	vehicle_type
1	Bicycle
2	Motorbike
3	Scooter
4	Truck
5	Van

24. Alter Adding-

ALTER TABLE Restaurant ADD comment VARCHAR(100)
GO
SELECT * FROM Restaurant
GO

	restaurant_id	name	location	contact_info	comment
1	21201	Pizza Palace	123 Pizza Ave Springfield	555-0001	NULL
2	21202	Burger Queen	456 Burger Rd Rivertown	555-0002	NULL
3	21203	Sushi Express	789 Sushi Blvd Lakeside	555-0003	NULL
4	21204	Taco Town	101 Taco St Springfield	555-0004	NULL
5	21205	Pasta Place	202 Pasta Rd Rivertown	555-0005	NULL
6	21206	Chicken Central	303 Chicken Blvd Lakeside	555-0006	NULL
7	21207	Seafood Shack	404 Seafood Ave Springfield	555-0007	NULL
8	21208	Steakhouse Supreme	505 Steak St Rivertown	555-0008	NULL
9	21209	Vegan Village	606 Vegan Blvd Lakeside	555-0009	NULL
10	21210	Ice Cream Island	707 IceCream St Springfield	555-0010	NULL

25. Delete-

DELETE FROM Coupon GO

The statement has been terminated.

Completion time: 2024-12-01T09:23:33.7672840+06:00

