Subject code ir Database management system - CSADS93 Reg No : 192311364 Name: P. Venkata Sai Pradeep Reddy CSA 0593 DBMS 192311364 P. Venkata Sai Pradeep Rest

Scenario Breakdown:

In food delivery service, there are terral core components.

- 1) Customers: Users of Source who place orders.
- 2) Restaurents: Provides food êtems available for order.
- 3) Items: Menu items listed by each restaurant
- 4) orders: orders placed by extornors, containing multiple
 5) Delivory deivers: Drivers responsible for delivering orders
- 6) Fredback: Customer feed back on ordon & Service Quanty

7) Delivery Status: Traves delivery progress of each order.

Database Design:

) Tably [automer Table]

CREATE TABLE customous (

customer-id INT PRIMARY KEY AUTO-INCREMENT,

name VARCHAR(100) NOT NULL,

ernael VARCHAR (100) UNIQUE NOT NULL,

Phone VARCHAR (20),

address TEXT NOT NULL,

Created - at TIMESTAMP DEFAULT CUMUL TIMESTAMP

Restaurants Table:

CREATE TABLE Restaurants

restaurant id INT primary-key Auto- increment,

Name VARCHAR (200) NOT NULL

address Text Not NOLL,

Phone VARCHAR (20),

Created at TIMESTAMP DEFAULT CURREN

Columns: - restaurant - red, name, address, phone and created - at Purpose: - provide restaurant détails, essential for connenting menu items and facilitating delivery logistics.

Items TAble:

Story individual items within an order.

CREATE TABLE order- Hemy

Order Item - ?d INT RRIMARY KEY AND - ENCREMENT.

Order - id . INT,

item-id INT,

quantity INT NOT NOLL,

price Deermal (10,2) NOT NOLL,

FOREIGN Key (order-id) References orders (order-id)

ON DELETE CASCADE, FOREIGN Key (1+cm. ed) References Item (item-id)

Columns: order - elem - ed, order - ed, ilem - ed, quantity, price. Purpose: Manage items within each order, including quantity & when the members to when * Delivery - Brivers Table: Information about driver available for delivery. CREATE TABLE Delivery Drivery cheices - "d INT primary key Auto- "NEREMENT, Mame VARCHAR (100), Phone VARCHAR (20), is-available Boolean DEFAULT TRUE. column: driver-ed, name, phone, ?1- avoidable. Purpose: - Trace driver awailability and tacilitate anignment to orders. * Fredbaue table: Stores Seedbaue from Curtomers related to orders. CREATE TABLE Feedback (Ledbaue id INT Milmary Key Auto- iNCREMENT, Contorner-ID INT, rating INT Cheek (rating Between 1 AND 5), comment TEXT FORETGIN- Key (order-id) Reterency orders (order-id),

FOREIGN-1CEY (Costomer-id) References costomers (customer-id)); intermed probability when and nothing made grands columns: - feed base - id, order - id, automer id, rading, comment, Created at Purpose: Collent customer feedback to improve Service * Delivery - states table: recommend out his seem Tracks and status & driver intormation for each order. CREATE TABLE Delevoy-status status - id INT primary ky, duto -increment, order - ed INT, delsvery ed INT, status ENMU ('Pending!'en Transit!' Delivered') Defaut · Pending! Past-updated TIMESTAMP DE FAULT Current - TIMESTAMP ON UPDATE Current-TIME STAMP, ForseGIN Ky (order-id) References by dors (brder- ad), FOREIGN Keyl deliver-id References Delivery Drivers (driver-id) columns: - status_id, order-id, dreiver-id, status, last-updated. Porpose: Trave progrew of each order delivery & update on real time.

```
Sorted procedures:
1) place an order: Insuls a now order & amoriated "tems
CREATE PROCEDURE place order (
    IN p-customer-id INT,
    IN P- restaurant - id INT,
    IN P- Hems JOON.
BEGIN
     DECLARE order-total (Decimal (10,2) Desaud 0);
     ENGINARAT TRATZ
     INSERT INTO orders (Customer-id), restaurant-id, total-aurant)
     Voluces (p-customer_id, p-restaurant _ ed.o);
      SET @ Order-id = LAST - INSERT-ID();
     DECLARE : tem - id INT;
     DECIARE quantity INT;
     Déclare price permal (10,2);
     For Each item IN JSON - EXRTACT (P-i-lem, 1/8[x]') DO
           SET item-id = item -> 'f. item-id,;
SET quantity = item -> 'f. item-id,;
       SELECT Price ento price From items where item-id
    Interianto order- : tems (order-id, tem-id, quantity, price)
    values@ order-id, item-id. quantity, price);
          order-tobal sorder total + (quantity + price);
```

In conclusion, the proposed customer order management system for a food delivery Service provides a robust. Scalable database structure tarlored to handle executial operations, including automer management, restaurant menus, order processing, delivery tracking, and automer feed back.

The tolution not only meets immediate requirements but also lays a strong foundation for future enhancements. Such as Possonalized recomendations, dynamic pricing, or advanced delivery logistics. Overall this structured approach aligns with goals of modern food delivery Service.

a Scalable, efficient Solution for handling orders, derivery togistics and austomer feedback in a Food derivery Service.

```
Update delivery status:
Updates the states of an order in derivery states table
CREATE TABLE Updatedelivougstatue
  IN p-order-id INT,
   IN p- states ENUM ('perding', In Transit', Delivered'
 BEGIN
    UPDATE Delivery_status SET status = p-state WHERE
   order-id=p-order-id;
  END; (a housed (soil) lamed ) labet when
3 Assign Driver:-
   CREATE TABLE Assignment (
       IN P-order-id INT,
       IN p-driver - ed INT
  BEGIN
   UPPATE Delivory- Drivers set is-available = FALSE WHERE
  driver-id = p-driver -id;
  INSERT INTO Delivery - states (order - "d, driver-id, states)
   VALUES (P-order-id, P-drivers-id, pending);
  END;
```