

## Coding Challenge-1

Name: Harish Er

### DATABASE:

#### Customers:

```
CREATE TABLE Customers (  
    CustomerID INT PRIMARY KEY,  
    CustomerName NVARCHAR(100),  
    City NVARCHAR(50)  
);  
  
INSERT INTO Customers (CustomerID, CustomerName, City) VALUES  
(1, 'Amit Sharma', 'Mumbai'),  
(2, 'Priya Singh', 'Delhi'),  
(3, 'Ravi Kumar', 'Bangalore'),  
(4, 'Anita Desai', 'Chennai'),  
(5, 'Sunil Verma', 'Hyderabad'),  
(6, 'Pooja Patel', 'Pune'),  
(7, 'Rakesh Mehta', 'Ahmedabad'),  
(8, 'Sita Iyer', 'Kolkata'),  
(9, 'Vikram Malhotra', 'Mumbai'),  
(10, 'Kavita Rao', 'Jaipur');
```

	CustomerID	CustomerName	City
1	1	Amit Sharma	Mumbai
2	2	Priya Singh	Delhi
3	3	Ravi Kumar	Bangalore
4	4	Anita Desai	Chennai
5	5	Sunil Verma	Hyderabad
6	6	Pooja Patel	Pune
7	7	Rakesh Mehta	Ahmedabad
8	8	Sita Iyer	Kolkata
9	9	Vikram Malhotra	Mumbai
10	10	Kavita Rao	Jaipur

Orders:

```
CREATE TABLE Orders (  
    OrderID INT PRIMARY KEY,  
    CustomerID INT,  
    OrderDate DATE,  
    TotalAmount DECIMAL(10, 2),  
    FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID)  
);
```

```
INSERT INTO Orders (OrderID, CustomerID, OrderDate, TotalAmount)  
VALUES  
(201, 1, '2024-01-05', 500.00),  
(202, 2, '2024-01-10', 750.00),  
(203, 3, '2024-02-15', 1200.00),  
(204, 4, '2024-02-20', 600.00),  
(205, 5, '2024-03-25', 450.00),  
(206, 6, '2024-04-01', 800.00),  
(207, 7, '2024-05-10', 1300.00),  
(208, 8, '2024-06-15', 400.00),  
(209, 9, '2024-07-20', 900.00),  
(210, 10, '2024-08-25', 1100.00);
```

	OrderID	CustomerID	OrderDate	TotalAmount
1	201	1	2024-01-05	500.00
2	202	2	2024-01-10	750.00
3	203	3	2024-02-15	1200.00
4	204	4	2024-02-20	600.00
5	205	5	2024-03-25	450.00
6	206	6	2024-04-01	800.00
7	207	7	2024-05-10	1300.00
8	208	8	2024-06-15	400.00
9	209	9	2024-07-20	900.00
10	210	10	2024-08-25	1100.00

## Couriers:

```
CREATE TABLE Couriers (  
    CourierID INT PRIMARY KEY,  
    CourierName NVARCHAR(100),  
    City NVARCHAR(50)  
);
```

```
INSERT INTO Couriers (CourierID, CourierName, City) VALUES  
(1, 'Rajesh Express', 'Mumbai'),  
(2, 'QuickGo', 'Delhi'),  
(3, 'Swift Couriers', 'Bangalore'),  
(4, 'Speedy Deliveries', 'Chennai'),  
(5, 'RapidMove', 'Hyderabad'),  
(6, 'DeliverNow', 'Pune'),  
(7, 'Express India', 'Ahmedabad'),  
(8, 'FastTrack', 'Kolkata'),  
(9, 'SafeHand', 'Mumbai'),  
(10, 'OneDay Delivery', 'Jaipur');
```

	CourierID	CourierName	City
1	1	Rajesh Express	Mumbai
2	2	QuickGo	Delhi
3	3	Swift Couriers	Bangalore
4	4	Speedy Deliveries	Chennai
5	5	RapidMove	Hyderabad
6	6	DeliverNow	Pune
7	7	Express India	Ahmedabad
8	8	FastTrack	Kolkata
9	9	SafeHand	Mumbai
10	10	OneDay Delivery	Jaipur

## Deliveries:

```
CREATE TABLE Deliveries (  
    DeliveryID INT PRIMARY KEY,  
    OrderID INT,  
    CourierID INT,  
    DeliveryDate DATE,  
    Status NVARCHAR(50),  
    FOREIGN KEY (OrderID) REFERENCES Orders(OrderID),  
    FOREIGN KEY (CourierID) REFERENCES Couriers(CourierID)  
);
```

```
INSERT INTO Deliveries (DeliveryID, OrderID, CourierID,  
DeliveryDate, Status) VALUES  
(301, 201, 1, '2024-01-06', 'Delivered'),  
(302, 202, 2, '2024-01-11', 'In Transit'),  
(303, 203, 3, '2024-02-16', 'Delivered'),  
(304, 204, 4, '2024-02-21', 'Pending'),  
(305, 205, 5, '2024-03-26', 'Delivered'),  
(306, 206, 6, '2024-04-02', 'In Transit'),  
(307, 207, 7, '2024-05-11', 'Delivered'),  
(308, 208, 8, '2024-06-16', 'Pending'),  
(309, 209, 9, '2024-07-21', 'Delivered'),  
(310, 210, 10, '2024-08-26', 'In Transit');
```

	DeliveryID	OrderID	CourierID	DeliveryDate	Status
1	301	201	1	2024-01-06	Delivered
2	302	202	2	2024-01-11	In Transit
3	303	203	3	2024-02-16	Delivered
4	304	204	4	2024-02-21	Pending
5	305	205	5	2024-03-26	Delivered
6	306	206	6	2024-04-02	In Transit
7	307	207	7	2024-05-11	Delivered
8	308	208	8	2024-06-16	Pending
9	309	209	9	2024-07-21	Delivered
10	310	210	10	2024-08-26	In Transit