SQL ASSIGNMENT COURIER MANAGEMENT SYSTEM

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Task1: Database Design Design a SQL schema for a Courier Management System with tables for Customers, Couriers, Orders, and Parcels. Define the relationships between these tables using appropriate foreign keys.

```
use master
use dbCourierManagement;
drop table tblPayment;
drop table tblCourier;
drop table tblUser;
drop table tblCourierServices;
drop table tblEmployee;
drop table tblLocation;
create table tblUser(
UserID int primary key,
UserName varchar(255),
UserEmail varchar(255) unique,
UserPassword varchar (255),
UserContact varchar(20),
UserAddress text
create table tblCourierServices(
ServiceID int primary key,
ServiceName varchar(100),
ServiceCost decimal(8,2)
create table tblEmployee(
EmployeeID int primary key,
EmployeeName varchar(255),
EmployeeEmail varchar(255) unique,
EmployeeContact varchar(20),
EmployeeRole varchar(50),
EmployeeSalary decimal(10,2)
create table tblLocation(
LocationId int primary key,
```

```
LocationName varchar(100),
LocationAddress text
);
create table tblCourier(
CourierID int primary key,
SenderName varchar(25),
SenderAddress text,
ReceiverName varchar(25),
ReceiverAddress text,
CourierWeight decimal(5,2),
CourierStatus varchar(50),
TrackingNumber varchar(20),
DeliveryDate date,
UserID INT,
EmployeeID INT,
ServiceID INT,
LocationID INT,
constraint fk courier user foreign key (UserID) references tblUser(UserID),
constraint fk courier employee foreign key (EmployeeID) references
tblEmployee(EmployeeID),
constraint fk_courier_CourierService foreign key (ServiceID) references
tblCourierServices(ServiceID),
constraint fk_courier_location foreign key (LocationID) references
tblLocation(LocationID)
);
create table tblPayment(
PaymentID int primary key,
CourierID int,
locationID int,
EmployeeID int,
Amount decimal(10,2),
PaymentDate date,
constraint fk payment courier foreign key (CourierID) references
tblCourier(CourierID),
constraint fk payment location foreign key (LocationID) references
tblLocation(LocationID),
constraint fk payment employee foreign key (EmployeeID) references
tblEmployee(EmployeeID)
);
INSERT INTO tbluser VALUES
(1, 'Arun Kumar', 'arun.kumar@example.com', 'pass123', '9876543210', 'Chennai, Tamil
Nadu'),
(2, 'Priya Sharma', 'priya.sharma@example.com', 'secure456', '9898989898',
'Coimbatore, Tamil Nadu'),
(3, 'Dinesh Kumar', 'dinesh.k@example.com', 'password789', '9876512345', 'Madurai,
Tamil Nadu'),
(4, 'Sowmya R', 'sowmya.r@example.com', 'pass999', '9867543210', 'Trichy, Tamil
(5, 'Vignesh B', 'vignesh.b@example.com', 'secure555', '9944556677', 'Salem, Tamil
Nadu'),
(6, 'Vikash', 'vikash2003@example.com', 'ToughPass35', '9546595473', 'Madurai, Tamil
Nadu'),
(7, 'Prashanth', 'Prashanth03@example.com', 'PrashPass35', '9876595472', 'Trichy, Tamil
Nadu'),
(8, 'Priya', 'Priya43@example.com', 'Priya678', '9876595473', 'Salem, Tamil Nadu'),
(9, 'kaviya', 'kavi03@example.com', 'kaviya321', '9812345473', 'Coimbatore, Tamil Nadu');
```

select * from tblUser;

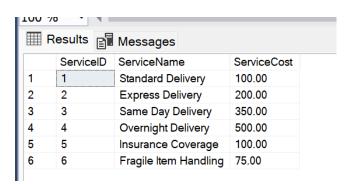
	UserID	UserName	UserEmail	UserPassword	UserContact	UserAddress
1	1	Arun Kumar	arun.kumar@example.com	pass123	9876543210	Chennai, Tamil Nadu
2	2	Priya Shar	priya.sharma@example.c	secure456	9898989898	Coimbatore, Tamil
3	3	Dinesh Ku	dinesh.k@example.com	password789	9876512345	Madurai, Tamil Nadu
4	4	Sowmya R	sowmya.r@example.com	pass999	9867543210	Trichy, Tamil Nadu
5	5	Vignesh B	vignesh.b@example.com	secure555	9944556677	Salem, Tamil Nadu
6	6	Vikash	vikash2003@example.com	ToughPass35	9546595473	Madurai, Tamil Nadu
7	7	Prashanth	Prashanth03@example.c	PrashPass35	9876595472	Trichy, Tamil Nadu
8	8	Priya	Priya43@example.com	Priya678	9876595473	Salem, Tamil Nadu
9	9	kaviya	kavi03@example.com	kaviya321	9812345473	Coimbatore, Tamil

INSERT INTO tblCourierServices VALUES

```
(1, 'Standard Delivery', 100.00),
(2, 'Express Delivery', 200.00),
(3, 'Same Day Delivery', 350.00),
(4, 'Overnight Delivery', 500.00),
(5, 'Insurance Coverage', 100.00),
```

- (6, 'Fragile Item Handling', 75.00);

select * from tblCourierServices;



INSERT INTO tblEmployee VALUES

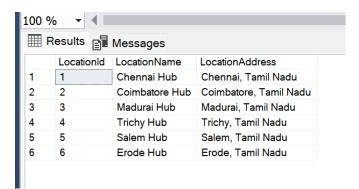
```
(1, 'Vikram R', 'vikram.r@example.com', '9876541230', 'Delivery Agent', 25000.00),
(2, 'Meena L', 'meena.l@example.com', '9845123456', 'Manager', 50000.00),
(3, 'Karthik S', 'karthik.s@example.com', '9785612345', 'Delivery Agent', 27000.00), (4, 'Lavanya M', 'lavanya.m@example.com', '9823456789', 'Supervisor', 60000.00), (5, 'Senthil K', 'senthil.k@example.com', '9798765432', 'Delivery Agent', 26000.00),
(6, 'John', 'JohnCena@example.com', '9798765431', 'Supervisor', 55000.00),
(7, 'Johnson', 'Johnson@example.com', '9798765430', 'Manager', 52000.00)
```

100 % ▼ ◀ ▮ Results Messages EmployeeID EmployeeName EmployeeEmail EmployeeContact EmployeeRole EmployeeSalary 9876541230 25000.00 Vikram R vikram.r@example.com Delivery Agent 2 2 Meena L meena.l@example.com 9845123456 Manager 50000.00 3 3 Karthik S karthik.s@example.com 9785612345 Delivery Agent 27000.00 4 4 Lavanya M lavanya.m@example.com 9823456789 Supervisor 60000.00 5 5 Senthil K senthil.k@example.com 9798765432 Delivery Agent 26000.00 6 6 John JohnCena@example.com 9798765431 Supervisor 55000 00 52000.00 Johnson Johnson@example.com 9798765430 Manager

INSERT INTO tblLocation VALUES

- (1, 'Chennai Hub', 'Chennai, Tamil Nadu'),
 (2, 'Coimbatore Hub', 'Coimbatore, Tamil Nadu'),
 (3, 'Madurai Hub', 'Madurai, Tamil Nadu'),
 (4, 'Trichy Hub', 'Trichy, Tamil Nadu'),
 (5, 'Salem Hub', 'Salem, Tamil Nadu'),
 (6, 'Erode Hub', 'Erode, Tamil Nadu');

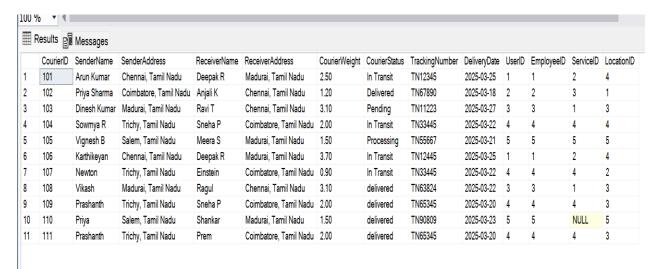
select * from tblLocation;



INSERT INTO tblCourier VALUES

```
(101, 'Arun Kumar', 'Chennai, Tamil Nadu', 'Deepak R', 'Madurai, Tamil Nadu', 2.5, 'In
Transit', 'TN12345', '2025-03-25', 1, 1, 2, 4),
(102, 'Priya Sharma', 'Coimbatore, Tamil Nadu', 'Anjali K', 'Chennai, Tamil Nadu',
1.2, 'Delivered', 'TN67890', '2025-03-18', 2, 2, 3, 1),
(103, 'Dinesh Kumar', 'Madurai, Tamil Nadu', 'Ravi T', 'Chennai, Tamil Nadu', 3.1, 'Pending', 'TN11223', '2025-03-27', 3, 3, 1, 3),
(104, 'Sowmya R', 'Trichy, Tamil Nadu', 'Sneha P', 'Coimbatore, Tamil Nadu', 2.0, 'In
Transit', 'TN33445', '2025-03-22', 4, 4, 4, 4),
(105, 'Vignesh B', 'Salem, Tamil Nadu', 'Meera S', 'Madurai, Tamil Nadu', 1.5,
'Processing', 'TN55667', '2025-03-21', 5, 5, 5, 5),
(106, 'Karthikeyan', 'Chennai, Tamil Nadu', 'Deepak R', 'Madurai, Tamil Nadu', 3.7,
'In Transit', 'TN12445', '2025-03-25', 1, 1, 2, 4),
(107, 'Newton', 'Trichy, Tamil Nadu', 'Einstein', 'Coimbatore, Tamil Nadu', 0.9, 'In Transit', 'TN33445', '2025-03-22', 4, 4, 4, 2),
(108, 'Vikash', 'Madurai, Tamil Nadu', 'Ragul', 'Chennai, Tamil Nadu', 3.1, 'delivered', 'TN63824', '2025-03-27', 3, 3, 1, 3),
(109, 'Prashanth', 'Trichy, Tamil Nadu', 'Sneha P', 'Coimbatore, Tamil Nadu', 2.0, 'delivered', 'TN65345', '2025-03-20', 4, 4, 4, 3),
(110, 'Priya', 'Salem, Tamil Nadu', 'Shankar', 'Madurai, Tamil Nadu',
1.5, 'delivered', 'TN90809', '2025-03-19', 5, 5, 5, 5),
(111, 'Prashanth', 'Trichy, Tamil Nadu', 'Prem', 'Coimbatore, Tamil Nadu', 2.0,
'delivered', 'TN65345', '2025-03-20', 4, 4, 4, 3);
```

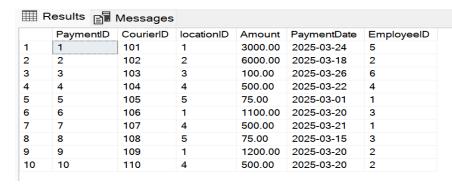
select *from tblCourier;



INSERT INTO tblPayment VALUES

```
(1, 101, 1, 200.00, '2025-03-24',5), (2, 102, 2, 350.00, '2025-03-18',2), (3, 103, 3, 100.00, '2025-03-26',6), (4, 104, 4, 500.00, '2025-03-22',4), (5, 105, 5, 75.00, '2025-03-28',1), (6, 106, 1, 150.00, '2025-03-20',3), (7, 107, 4, 500.00, '2025-03-21',1), (8, 108, 5, 75.00, '2025-03-28',3), (9, 109, 1, 150.00, '2025-03-20',2), (10, 110, 4, 500.00, '2025-03-21',2);
```

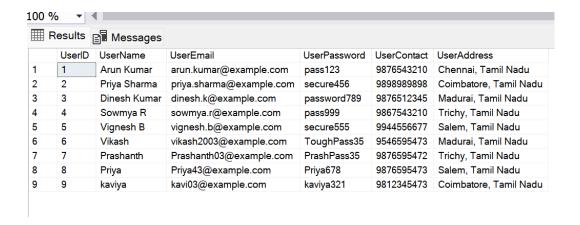
select * from tblPayment;



Task 2: Select, Where

1. List all customers:

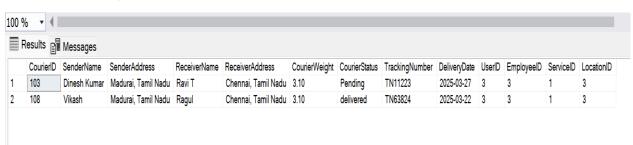
```
select * from tblUser;
```



2. List all orders for a specific customer:

select * from tblCourier

where UserID='3';



3. List all couriers:

select * from tblCourier;

	CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	CourierWeight	CourierStatus	TrackingNumber	DeliveryDate	UserlD	EmployeeID	ServiceID	Location
1	101	Arun Kumar	Chennai, Tamil Nadu	Deepak R	Madurai, Tamil Nadu	2.50	In Transit	TN12345	2025-03-25	1	1	2	4
2	102	Priya Sharma	Coimbatore, Tamil Nadu	Anjali K	Chennai, Tamil Nadu	1.20	Delivered	TN67890	2025-03-18	2	2	3	1
3	103	Dinesh Kumar	Madurai, Tamil Nadu	Ravi T	Chennai, Tamil Nadu	3.10	Pending	TN11223	2025-03-27	3	3	1	3
1	104	Sowmya R	Trichy, Tamil Nadu	Sneha P	Coimbatore, Tamil Nadu	2.00	In Transit	TN33445	2025-03-22	4	4	4	4
5	105	Vignesh B	Salem, Tamil Nadu	Meera S	Madurai, Tamil Nadu	1.50	Processing	TN55667	2025-03-21	5	5	5	5
6	106	Karthikeyan	Chennai, Tamil Nadu	Deepak R	Madurai, Tamil Nadu	3.70	In Transit	TN12445	2025-03-25	1	1	2	4
7	107	Newton	Trichy, Tamil Nadu	Einstein	Coimbatore, Tamil Nadu	0.90	In Transit	TN33445	2025-03-22	4	4	4	2
3	108	Vikash	Madurai, Tamil Nadu	Ragul	Chennai, Tamil Nadu	3.10	delivered	TN63824	2025-03-22	3	3	1	3
)	109	Prashanth	Trichy, Tamil Nadu	Sneha P	Coimbatore, Tamil Nadu	2.00	delivered	TN65345	2025-03-20	4	4	4	3
10	110	Priya	Salem, Tamil Nadu	Shankar	Madurai, Tamil Nadu	1.50	delivered	TN90809	2025-03-23	5	5	NULL	5
11	111	Prashanth	Trichy, Tamil Nadu	Prem	Coimbatore, Tamil Nadu	2.00	delivered	TN65345	2025-03-20	4	4	4	3

4. List all packages for a specific order:

```
select * from tblCourier
where CourierID='104';
```

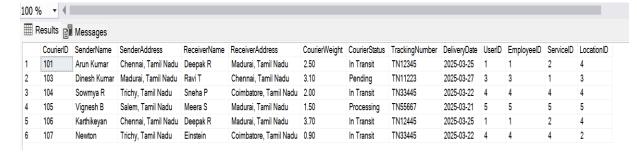
5. List all deliveries for a specific courier:

```
select * from tblCourier
where CourierID='101'
```



6. List all undelivered packages:

```
select * from tblCourier
where CourierStatus <> 'Delivered';
```



7. List all packages that are scheduled for delivery today:

```
select * from tblCourier
where DeliveryDate = CAST(GETDATE() AS DATE);
```



8. List all packages with a specific status:

```
select * from tblCourier
where CourierStatus = 'in Transit';
```

Ⅲ R	esults	Messages											
	CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	CourierWeight	CourierStatus	TrackingNumber	DeliveryDate	UserID	EmployeeID	ServiceID	LocationID
1	101	Arun Kumar	Chennai, Tamil Nadu	Deepak R	Madurai, Tamil Nadu	2.50	In Transit	TN12345	2025-03-25	1	1	2	4
2	104	Sowmya R	Trichy, Tamil Nadu	Sneha P	Coimbatore, Tamil Nadu	2.00	In Transit	TN33445	2025-03-22	4	4	4	4
3	106	Karthikeyan	Chennai, Tamil Nadu	Deepak R	Madurai, Tamil Nadu	3.70	In Transit	TN12445	2025-03-25	1	1	2	4
4	107	Newton	Trichy, Tamil Nadu	Einstein	Coimbatore, Tamil Nadu	0.90	In Transit	TN33445	2025-03-22	4	4	4	2

9. Calculate the total number of packages for each courier.

select CourierID, count(*) as 'Total Number of Packages' from tblCourier
group by CourierID;

		Mossages			
	CourierID	Total Number of Packages			
1	101	1			
2	102	1			
3	103	1			
4	104	1			
5	105	1			
6	106	1			
7	107	1			
8	108	1			
9	109	1			
10	110	1			
11	111	1			

10. Find the average delivery time for each courier

```
select C.courierID,avg(DATEDIFF(DAY,P.PaymentDate,C.DeliveryDate)) as 'Average
Delivery Time' from tblCourier C
join tblPayment P on C.CourierID = P.CourierID
group by C.CourierID;
```

Results Messages					
	courierID	Average Delivery Time			
1	101	1			
2	102	0			
3	103	1			
4	104	0			
5	105	20			
6	106	5			
7	107	1			
8	108	7			
9	109	0			
10	110	3			
10	110	3			

11. List all packages with a specific weight range:

```
select * from tblCourier
where CourierWeight between 2 and 3;
```

 F	Results 🖟 Messages												
	CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	CourierWeight	CourierStatus	TrackingNumber	DeliveryDate	UserID	EmployeeID	ServiceID	LocationID
1	101	Arun Kumar	Chennai, Tamil Nadu	Deepak R	Madurai, Tamil Nadu	2.50	In Transit	TN12345	2025-03-25	1	1	2	4
2	104	Sowmya R	Trichy, Tamil Nadu	Sneha P	Coimbatore, Tamil Nadu	2.00	In Transit	TN33445	2025-03-22	4	4	4	4
3	109	Prashanth	Trichy, Tamil Nadu	Sneha P	Coimbatore, Tamil Nadu	2.00	delivered	TN65345	2025-03-20	4	4	4	3
4	111	Prashanth	Trichy, Tamil Nadu	Prem	Coimbatore, Tamil Nadu	2.00	delivered	TN65345	2025-03-20	4	4	4	3

12. Retrieve employees whose names contain 'John'

```
select * from tblEmployee
where EmployeeName like '%John%';
```

	EmployeeID	EmployeeName	EmployeeEmail	EmployeeContact	EmployeeRole	EmployeeSalary
	6	John	JohnCena@example.com	9798765431	Supervisor	55000.00
2	7	Johnson	Johnson@example.com	9798765430	Manager	52000.00

13. Retrieve all courier records with payments greater than \$50.

```
select * from tblCourier C
join tblPayment P on C.CourierID = P.CourierID
where P.Amount > 50;
```

	SenderName	SenderAddress	ReceiverName	ReceiverAddress	CourierWeight	CourierStatus	TrackingNumber	DeliveryDate	UserID	EmployeeID	ServiceID	LocationII
1	Arun Kumar	Chennai, Tamil Nadu	Deepak R	Madurai, Tamil Nadu	2.50	In Transit	TN12345	2025-03-25	1	1	2	4
2	Priya Sharma	Coimbatore, Tamil Nadu	Anjali K	Chennai, Tamil Nadu	1.20	Delivered	TN67890	2025-03-18	2	2	3	1
3	Dinesh Kumar	Madurai, Tamil Nadu	Ravi T	Chennai, Tamil Nadu	3.10	Pending	TN11223	2025-03-27	3	3	1	3
4	Sowmya R	Trichy, Tamil Nadu	Sneha P	Coimbatore, Tamil Nadu	2.00	In Transit	TN33445	2025-03-22	4	4	4	4
5	Vignesh B	Salem, Tamil Nadu	Meera S	Madurai, Tamil Nadu	1.50	Processing	TN55667	2025-03-21	5	5	5	5
6	Karthikeyan	Chennai, Tamil Nadu	Deepak R	Madurai, Tamil Nadu	3.70	In Transit	TN12445	2025-03-25	1	1	2	4
7	Newton	Trichy, Tamil Nadu	Einstein	Coimbatore, Tamil Nadu	0.90	In Transit	TN33445	2025-03-22	4	4	4	2
8	Vikash	Madurai, Tamil Nadu	Ragul	Chennai, Tamil Nadu	3.10	delivered	TN63824	2025-03-22	3	3	1	3
9	Prashanth	Trichy, Tamil Nadu	Sneha P	Coimbatore, Tamil Nadu	2.00	delivered	TN65345	2025-03-20	4	4	4	3
10	Priya	Salem, Tamil Nadu	Shankar	Madurai, Tamil Nadu	1.50	delivered	TN90809	2025-03-23	5	5	NULL	5

PaymentID	CourierID	IocationID	Amount	PaymentDate	EmployeelD
1	101	1	3000.00	2025-03-24	5
2	102	2	6000.00	2025-03-18	2
3	103	3	100.00	2025-03-26	6
4	104	4	500.00	2025-03-22	4
5	105	5	75.00	2025-03-01	1
6	106	1	1100.00	2025-03-20	3
7	107	4	500.00	2025-03-21	1
8	108	5	75.00	2025-03-15	3
9	109	1	1200.00	2025-03-20	2
10	110	4	500.00	2025-03-20	2

Task 3: GroupBy, Aggregate Functions, Having, Order By, where

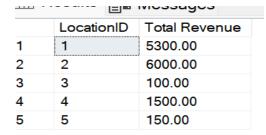
14. Find the total number of couriers handled by each employee.

```
select EmployeeID, count(CourierID) as 'Total number of Couriers Handled'
from tblCourier
group by EmployeeID;
```

Ш	⊞ Results								
	EmployeeID	Total number of Couriers Handled							
1	1	2							
2	2	1							
3	3	2							
4	4	4							
5	5	2							

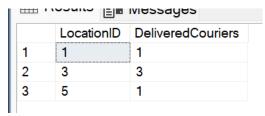
15. Calculate the total revenue generated by each location

select LocationID, sum(Amount) as 'Total Revenue' from tblPayment
group by LocationId;



16. Find the total number of couriers delivered to each location.

SELECT LocationID, COUNT(CourierID) AS DeliveredCouriers FROM tblCourier
WHERE CourierStatus = 'Delivered' GROUP BY LocationID;



17. Find the courier with the highest average delivery time:

18. Find Locations with Total Payments Less Than a Certain Amount

```
select LocationID, sum(Amount) as 'Total Payments' from tblPayment
group by LocationID
having sum(Amount)<250;</pre>
```

Results Messages							
	LocationID	Total Payments					
1	3	100.00					
2	5	150.00					

19. Calculate Total Payments per Location

```
select LocationID, sum(Amount) as 'Total Payments'
from tblPayment
group by LocationID
```

III R	Results Messages							
	LocationID	Total Payments						
1	1	5300.00						
2	2	6000.00						
3	3	100.00						
4	4	1500.00						
5	5	150.00						

20. Retrieve couriers who have received payments totaling more than 1000 in a specific location (LocationID = X):

```
select * from tblCourier C
join (
select CourierID,sum(Amount) as 'Total Payment' from tblPayment
where LocationID = 1
group by CourierID
having sum(Amount)>1000
) P on C.CourierID = P.CourierID;
```

CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	CourierWeight	CourierStatus	TrackingNumber	DeliveryDate	UserlD	EmployeeID	ServiceID	LocationID	CourierID	Total Paymen
101	Arun Kumar	Chennai, Tamil Nadu	Deepak R	Madurai, Tamil Nadu	2.50	In Transit	TN12345	2025-03-25	1	1	2	4	101	3000.00
106	Karthikeyan	Chennai, Tamil Nadu	Deepak R	Madurai, Tamil Nadu	3.70	In Transit	TN12445	2025-03-25	1	1	2	4	106	1100.00
109	Prashanth	Trichy, Tamil Nadu	Sneha P	Coimbatore, Tamil Nadu	2.00	delivered	TN65345	2025-03-20	4	4	4	3	109	1200.00

21. Retrieve couriers who have received payments totaling more than \$1000 after a certain date (PaymentDate > 'YYYY-MM-DD'):

```
select * from tblCourier
where CourierID in(
select CourierID from tblPayment
where PaymentDate > '2025-03-19'
group by CourierID
having sum(Amount)>1000
 Results Messages
     CourierID SenderName SenderAddress
                                                             CourierWeight CourierStatus TrackingNumber DeliveryDate UserID EmployeeID ServiceID LocationID
                                   ReceiverName ReceiverAddress
            Arun Kumar Chennai, Tamil Nadu Deepak R Madurai, Tamil Nadu 2.50
                                                                      In Transit
                                                                                TN12345
                                                                                            2025-03-25 1
                                                                                                          1
                                                                                                                          4
                                           Madurai, Tamil Nadu 3.70
 2
            Karthikeyan Chennai, Tamil Nadu Deepak R
                                                                       In Transit
                                                                                TN12445
                                                                                            2025-03-25 1
                                                                                                                          4
 3
                                                                                TN65345
```

delivered

2025-03-20 4

3

22. Retrieve locations where the total amount received is more than \$5000 before a certain date (PaymentDate > 'YYYY-MM-DD')

Coimbatore, Tamil Nadu 2.00

```
select * from tblLocation
where LocationId in(
select LocationID
from tblPayment
where PaymentDate < '2025-03-20'
group by locationID
having sum(Amount)>5000
Results Messages
  LocationId LocationName
                          LocationAddress
            Coimbatore Hub Coimbatore, Tamil Nadu
```

Prashanth Trichy, Tamil Nadu Sneha P

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Task 4: Inner Join, Full Outer Join, Cross Join, Left Outer Join, Right Outer Join

23. Retrieve Payments with Courier Information

```
select P.*,C.* from tblCourier C
left join tblPayment P on C.CourierID=P.CourierID
```

	PaymentID	CourierID	locationID	Amount	PaymentDate	EmployeeID	CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	(
1	1	101	1	3000.00	2025-03-24	5	101	Arun Kumar	Chennai, Tamil Nadu	Deepak R	Madurai, Tamil Nadu	1
2	2	102	2	6000.00	2025-03-18	2	102	Priya Sharma	Coimbatore, Tamil Nadu	Anjali K	Chennai, Tamil Nadu	٠
3	3	103	3	100.00	2025-03-26	6	103	Dinesh Kumar	Madurai, Tamil Nadu	Ravi T	Chennai, Tamil Nadu	:
4	4	104	4	500.00	2025-03-22	4	104	Sowmya R	Trichy, Tamil Nadu	Sneha P	Coimbatore, Tamil Nadu	1
5	5	105	5	75.00	2025-03-01	1	105	Vignesh B	Salem, Tamil Nadu	Meera S	Madurai, Tamil Nadu	٠
6	6	106	1	1100.00	2025-03-20	3	106	Karthikeyan	Chennai, Tamil Nadu	Deepak R	Madurai, Tamil Nadu	:
7	7	107	4	500.00	2025-03-21	1	107	Newton	Trichy, Tamil Nadu	Einstein	Coimbatore, Tamil Nadu	(
8	8	108	5	75.00	2025-03-15	3	108	Vikash	Madurai, Tamil Nadu	Ragul	Chennai, Tamil Nadu	;
9	9	109	1	1200.00	2025-03-20	2	109	Prashanth	Trichy, Tamil Nadu	Sneha P	Coimbatore, Tamil Nadu	1
10	10	110	4	500.00	2025-03-20	2	110	Priya	Salem, Tamil Nadu	Shankar	Madurai, Tamil Nadu	٠
11	NULL	NULL	NULL	NULL	NULL	NULL	111	Prashanth	Trichy, Tamil Nadu	Prem	Coimbatore, Tamil Nadu	1

CourierWeight	CourierStatus	TrackingNumber	DeliveryDate	UserID	EmployeeID	ServiceID	LocationID
2.50	In Transit	TN12345	2025-03-25	1	1	2	4
1.20	Delivered	TN67890	2025-03-18	2	2	3	1
3.10	Pending	TN11223	2025-03-27	3	3	1	3
2.00	In Transit	TN33445	2025-03-22	4	4	4	4
1.50	Processing	TN55667	2025-03-21	5	5	5	5
3.70	In Transit	TN12445	2025-03-25	1	1	2	4
0.90	In Transit	TN33445	2025-03-22	4	4	4	2
3.10	delivered	TN63824	2025-03-22	3	3	1	3
2.00	delivered	TN65345	2025-03-20	4	4	4	3
1.50	delivered	TN90809	2025-03-23	5	5	NULL	5
2.00	delivered	TN65345	2025-03-20	4	4	4	3

24. Retrieve Payments with Location Information

select P.*,L.* from tblLocation L
left join tblPayment P on L.LocationID=P.locationID

_	—								
	PaymentID	CourierID	IocationID	Amount	PaymentDate	EmployeeID	LocationId	LocationName	LocationAddress
1	1	101	1	3000.00	2025-03-24	5	1	Chennai Hub	Chennai, Tamil Nadu
2	6	106	1	1100.00	2025-03-20	3	1	Chennai Hub	Chennai, Tamil Nadu
3	9	109	1	1200.00	2025-03-20	2	1	Chennai Hub	Chennai, Tamil Nadu
4	2	102	2	6000.00	2025-03-18	2	2	Coimbatore Hub	Coimbatore, Tamil Nadu
5	3	103	3	100.00	2025-03-26	6	3	Madurai Hub	Madurai, Tamil Nadu
6	4	104	4	500.00	2025-03-22	4	4	Trichy Hub	Trichy, Tamil Nadu
7	7	107	4	500.00	2025-03-21	1	4	Trichy Hub	Trichy, Tamil Nadu
8	10	110	4	500.00	2025-03-20	2	4	Trichy Hub	Trichy, Tamil Nadu
9	5	105	5	75.00	2025-03-01	1	5	Salem Hub	Salem, Tamil Nadu
10	8	108	5	75.00	2025-03-15	3	5	Salem Hub	Salem, Tamil Nadu
11	NULL	NULL	NULL	NULL	NULL	NULL	6	Erode Hub	Erode, Tamil Nadu

25. Retrieve Payments with Courier and Location Information

```
select P.*,C.*,L.* from tblPayment P
inner join tblCourier C on P.CourierID = C.CourierID
inner join tblLocation L on C.locationID = L.LocationID
```

	PaymentID	CourierID	locationID	Amoun	Payment	Date	Employee	elD Courierl	D Sender	Name S	SenderAddr	ess	ReceiverName	F
1	1	101	1	3000.00	2025-03-	-24	5	101	Arun K	umar	Chennai, Ta	mil Nadu	Deepak R	1
2	2	102	2	6000.00	2025-03-	-18	2	102	Priya SI	harma	Coimbatore	Tamil Nadu	Anjali K	(
3	3	103	3	100.00	2025-03-	26	6	103	Dinesh	Kumar I	Madurai, Ta	mil Nadu	Ravi T	(
4	4	104	4	500.00	2025-03-	-22	4	104	Sowmy	a R	Trichy, Tam	il Nadu	Sneha P	(
5	5	105	5	75.00	2025-03-	-01	1	105	Vignes	hB :	Salem, Tam	il Nadu	Meera S	1
6	6	106	1	1100.00	2025-03-	-20	3	106	Karthike	eyan (Chennai, Ta	mil Nadu	Deepak R	1
7	7	107	4	500.00	2025-03-	21	1	107	Newtor	· ·	Trichy, Tam	il Nadu	Einstein	(
8	8	108	5	75.00	2025-03-	15	3	108	Vikash		Madurai, Ta	mil Nadu	Ragul	(
9	9	109	1	1200.00	2025-03-	-20	2	109	Prasha	nth	Trichy, Tam	il Nadu	Sneha P	(
10	10	110	4	500.00	2025-03-	-20	2	110	Priya	:	Salem, Tam	il Nadu	Shankar	1
Receiver	rAddress	CourierWei	ght Couriers	Status Trac	kingNumber	Deliver	Date Use	rlD Employeel	D ServiceID	Location	LocationId	LocationName	LocationAddres	s
Madurai	, Tamil Nadu	2.50	In Trans	it TN1	2345	2025-03	3-25 1	1	2	4	4	Trichy Hub	Trichy, Tamil Na	adu
Chennai	i, Tamil Nadu	1.20	Delivere	d TN6	7890	2025-03	3-18 2	2	3	1	1	Chennai Hub	Chennai, Tamil	Nadu
Chennai	i, Tamil Nadu	3.10	Pending	TN1	1223	2025-03	3-27 3	3	1	3	3	Madurai Hub	Madurai, Tamil I	Nadu
Coimbat	ore, Tamil Nadu	2.00	In Trans	it TN3	3445	2025-03	3-22 4	4	4	4	4	Trichy Hub	Trichy, Tamil Na	adu
Madurai,	, Tamil Nadu	1.50	Process	ing TN	5667	2025-03	3-21 5	5	5	5	5	Salem Hub	Salem, Tamil Na	adu
Madurai,	, Tamil Nadu	3.70	In Trans	it TN1	2445	2025-03	3-25 1	1	2	4	4	Trichy Hub	Trichy, Tamil Na	adu
Coimbat	ore, Tamil Nadu	0.90	In Trans	it TN3	3445	2025-03	3-22 4	4	4	2	2	Coimbatore Hu	b Coimbatore, Tai	mil Na
Chennai	i, Tamil Nadu	3.10	delivere	d TN6	3824	2025-03	3-22 3	3	1	3	3	Madurai Hub	Madurai, Tamil I	Nadu
Coimbat	ore, Tamil Nadu	2.00	delivere	d TN6	5345	2025-03	3-20 4	4	4	3	3	Madurai Hub	Madurai, Tamil I	Nadu
Madurai	, Tamil Nadu	1.50	delivere	d TNS	0809	2025-03	3-23 5	5	NULL	5	5	Salem Hub	Salem, Tamil Na	adu

26. List all payments with courier details

select P.*,C.* from tblPayment P
right join tblCourier C on P.CourierID = C.CourierID

	PaymentID	CourierID	locationID	Amount	PaymentDate	EmployeeID	CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	CourierWeigh
1	1	101	1	3000.00	2025-03-24	5	101	Arun Kumar	Chennai, Tamil Nadu	Deepak R	Madurai, Tamil Nadu	2.50
2	2	102	2	6000.00	2025-03-18	2	102	Priya Sharma	Coimbatore, Tamil Nadu	Anjali K	Chennai, Tamil Nadu	1.20
3	3	103	3	100.00	2025-03-26	6	103	Dinesh Kumar	Madurai, Tamil Nadu	Ravi T	Chennai, Tamil Nadu	3.10
4	4	104	4	500.00	2025-03-22	4	104	Sowmya R	Trichy, Tamil Nadu	Sneha P	Coimbatore, Tamil Nadu	2.00
5	5	105	5	75.00	2025-03-01	1	105	Vignesh B	Salem, Tamil Nadu	Meera S	Madurai, Tamil Nadu	1.50
6	6	106	1	1100.00	2025-03-20	3	106	Karthikeyan	Chennai, Tamil Nadu	Deepak R	Madurai, Tamil Nadu	3.70
7	7	107	4	500.00	2025-03-21	1	107	Newton	Trichy, Tamil Nadu	Einstein	Coimbatore, Tamil Nadu	0.90
8	8	108	5	75.00	2025-03-15	3	108	Vikash	Madurai, Tamil Nadu	Ragul	Chennai, Tamil Nadu	3.10
9	9	109	1	1200.00	2025-03-20	2	109	Prashanth	Trichy, Tamil Nadu	Sneha P	Coimbatore, Tamil Nadu	2.00
10	10	110	4	500.00	2025-03-20	2	110	Priya	Salem, Tamil Nadu	Shankar	Madurai, Tamil Nadu	1.50
11	NULL	NULL	NULL	NULL	NULL	NULL	111	Prashanth	Trichy, Tamil Nadu	Prem	Coimbatore, Tamil Nadu	2.00

CourierStatus	TrackingNumber	DeliveryDate	UserID	EmployeeID	ServiceID	LocationID
In Transit	TN12345	2025-03-25	1	1	2	4
Delivered	TN67890	2025-03-18	2	2	3	1
Pending	TN11223	2025-03-27	3	3	1	3
In Transit	TN33445	2025-03-22	4	4	4	4
Processing	TN55667	2025-03-21	5	5	5	5
In Transit	TN12445	2025-03-25	1	1	2	4
In Transit	TN33445	2025-03-22	4	4	4	2
delivered	TN63824	2025-03-22	3	3	1	3
delivered	TN65345	2025-03-20	4	4	4	3
delivered	TN90809	2025-03-23	5	5	NULL	5
delivered	TN65345	2025-03-20	4	4	4	3

27. Total payments received for each courier

select C.CourierID, sum(P.Amount) as 'Total Payments Received' from tblCourier C
left join tblPayment P on C.CourierID = P.CourierID
group by C.CourierID

III F	Results	Messages
	CourierID	Total Payments Received
1	101	3000.00
2	102	6000.00
3	103	100.00
4	104	500.00
5	105	75.00
6	106	1100.00
7	107	500.00
8	108	75.00
9	109	1200.00
10	110	500.00
11	111	NULL

28. List payments made on a specific date

select * from tblPayment
where PaymentDate = '2025-03-20'

	Results	Messages				
	PaymentID	CourierID	locationID	Amount	PaymentDate	EmployeelD
1	6	106	1	1100.00	2025-03-20	3
2	9	109	1	1200.00	2025-03-20	2
3	10	110	4	500.00	2025-03-20	2

29. Get Courier Information for Each Payment

select P.*,C.* from tblPayment P
right join tblCourier C on P.CourierID = C.CourierID

	PaymentID	CourierID	locationID	Amount	PaymentDate	EmployeeID	CourierID	SenderName	SenderAddress	ReceiverName
1	1	101	1	3000.00	2025-03-24	5	101	Arun Kumar	Chennai, Tamil Nadu	Deepak R
2	2	102	2	6000.00	2025-03-18	2	102	Priya Sharma	Coimbatore, Tamil Nadu	Anjali K
3	3	103	3	100.00	2025-03-26	6	103	Dinesh Kumar	Madurai, Tamil Nadu	Ravi T
4	4	104	4	500.00	2025-03-22	4	104	Sowmya R	Trichy, Tamil Nadu	Sneha P
5	5	105	5	75.00	2025-03-01	1	105	Vignesh B	Salem, Tamil Nadu	Meera S
6	6	106	1	1100.00	2025-03-20	3	106	Karthikeyan	Chennai, Tamil Nadu	Deepak R
7	7	107	4	500.00	2025-03-21	1	107	Newton	Trichy, Tamil Nadu	Einstein
8	8	108	5	75.00	2025-03-15	3	108	Vikash	Madurai, Tamil Nadu	Ragul
9	9	109	1	1200.00	2025-03-20	2	109	Prashanth	Trichy, Tamil Nadu	Sneha P
10	10	110	4	500.00	2025-03-20	2	110	Priya	Salem, Tamil Nadu	Shankar
11	NULL	NULL	NULL	NULL	NULL	NULL	111	Prashanth	Trichy, Tamil Nadu	Prem

ReceiverAddress	CourierWeight	CourierStatus	TrackingNumber	DeliveryDate	UserID	EmployeeID	ServiceID	LocationID
Madurai, Tamil Nadu	2.50	In Transit	TN12345	2025-03-25	1	1	2	4
Chennai, Tamil Nadu	1.20	Delivered	TN67890	2025-03-18	2	2	3	1
Chennai, Tamil Nadu	3.10	Pending	TN11223	2025-03-27	3	3	1	3
Coimbatore, Tamil Nadu	2.00	In Transit	TN33445	2025-03-22	4	4	4	4
Madurai, Tamil Nadu	1.50	Processing	TN55667	2025-03-21	5	5	5	5
Madurai, Tamil Nadu	3.70	In Transit	TN12445	2025-03-25	1	1	2	4
Coimbatore, Tamil Nadu	0.90	In Transit	TN33445	2025-03-22	4	4	4	2
Chennai, Tamil Nadu	3.10	delivered	TN63824	2025-03-22	3	3	1	3
Coimbatore, Tamil Nadu	2.00	delivered	TN65345	2025-03-20	4	4	4	3
Madurai, Tamil Nadu	1.50	delivered	TN90809	2025-03-23	5	5	NULL	5
Coimbatore, Tamil Nadu	2.00	delivered	TN65345	2025-03-20	4	4	4	3

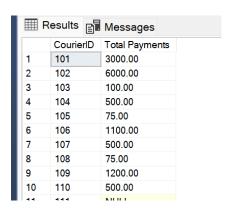
30. Get Payment Details with Location

```
select P.*,L.* from tblPayment P
right join tblLocation L on P.locationID = L.LocationId
```

шш -	Ell Mossages												
	PaymentID	CourierID	locationID	Amount	PaymentDate	EmployeeID	LocationId	LocationName	LocationAddress				
1	1	101	1	3000.00	2025-03-24	5	1	Chennai Hub	Chennai, Tamil Nadu				
2	6	106	1	1100.00	2025-03-20	3	1	Chennai Hub	Chennai, Tamil Nadu				
3	9	109	1	1200.00	2025-03-20	2	1	Chennai Hub	Chennai, Tamil Nadu				
4	2	102	2	6000.00	2025-03-18	2	2	Coimbatore Hub	Coimbatore, Tamil Nadu				
5	3	103	3	100.00	2025-03-26	6	3	Madurai Hub	Madurai, Tamil Nadu				
6	4	104	4	500.00	2025-03-22	4	4	Trichy Hub	Trichy, Tamil Nadu				
7	7	107	4	500.00	2025-03-21	1	4	Trichy Hub	Trichy, Tamil Nadu				
8	10	110	4	500.00	2025-03-20	2	4	Trichy Hub	Trichy, Tamil Nadu				
9	5	105	5	75.00	2025-03-01	1	5	Salem Hub	Salem, Tamil Nadu				
10	8	108	5	75.00	2025-03-15	3	5	Salem Hub	Salem, Tamil Nadu				
11	NULL	NULL	NULL	NULL	NULL	NULL	6	Erode Hub	Erode, Tamil Nadu				

31. Calculating Total Payments for Each Courier

```
select C.CourierID, sum(P.Amount) as 'Total Payments' from tblCourier C
left join tblPayment P on C.CourierID = P.CourierID
group by C.CourierID
```



32. List Payments Within a Date Range

```
select * from tblPayment
where PaymentDate between '2025-03-18' and '2025-03-25'
```

	D	CiID	In a set a set D	Λ	D	Faraday and
	PaymentID	CourierID	locationID	Amount	PaymentDate	Employeel
1	1	101	1	3000.00	2025-03-24	5
2	2	102	2	6000.00	2025-03-18	2
3	4	104	4	500.00	2025-03-22	4
4	6	106	1	1100.00	2025-03-20	3
5	7	107	4	500.00	2025-03-21	1
6	9	109	1	1200.00	2025-03-20	2
7	10	110	4	500.00	2025-03-20	2

33. Retrieve a list of all users and their corresponding courier records, including cases where there are no matches on either side

select U.*,C.* from tblUser U
left join tblCourier C on U.UserID = C.UserID

	UserID	UserName	User	Email	UserPassword	UserContact	UserAddres	:e	Courie	ID Sen	derName	Sender/	\ddress	ReceiverName
1	1	Arun Kumar		.kumar@example.com	pass123	9876543210	Chennai, Ta	_	101		n Kumar		i, Tamil Nadu	Deepak R
2	1	Arun Kumar		kumar@example.com	pass123	9876543210	Chennai, Ta		106		hikeyan		i, Tamil Nadu	Deepak R
3	2	Priya Sharma		.sharma@example.com	•	9898989898		, Tamil Nadu	102		a Sharma		tore, Tamil Nadu	Anjali K
4	3	Dinesh Kumar		sh.k@example.com	password789	9876512345	Madurai, Ta	mil Nadu	103		esh Kumar	Madurai	i, Tamil Nadu	Ravi T
5	3	Dinesh Kumar	dines	sh.k@example.com	password789	9876512345	Madurai, Ta	amil Nadu	108	Vika	ısh	Madurai	i, Tamil Nadu	Ragul
6	4	Sowmya R	sown	nya.r@example.com	pass999	9867543210	Trichy, Tan	nil Nadu	104	Sov	/mya R	Trichy, 7	Tamil Nadu	Sneha P
7	4	Sowmya R	sown	nya.r@example.com	pass999	9867543210	Trichy, Tan	nil Nadu	107	Nev	vton	Trichy, 7	Tamil Nadu	Einstein
8	4	Sowmya R		nya.r@example.com	pass999	9867543210	Trichy, Tan		109	Pras	shanth		Tamil Nadu	Sneha P
9	4	Sowmya R		nya.r@example.com	pass999	9867543210	Trichy, Tan		111		shanth		Tamil Nadu	Prem
10	5	Vignesh B	_	esh.b@example.com	secure555	9944556677	Salem, Tan		105	_	nesh B		Tamil Nadu	Meera S
11	5	Vignesh B	_	esh.b@example.com	secure555	9944556677	Salem, Tan		110	Priy		,	Tamil Nadu	Shankar
12	6	Vikash		h2003@example.com	ToughPass35	9546595473	Madurai, Ta		NULL	NUL		NULL		NULL
13	7	Prashanth		nanth03@example.com		9876595472	Trichy, Tan		NULL	NUL	-	NULL		NULL
14 15	9	Priya kaviya	,	43@example.com 3@example.com	Priya678 kaviya321	9876595473 9812345473	Salem, Tan	nii Nadu , Tamil Nadu	NULL	NUL		NULL		NULL NULL
10	3	Kaviya	Kavio	o@example.com	Kaviya021	3012040470	Compatore	, ranninada	NOLL	1401		NOLL		HOLL
R	eceiver	Address		CourierWeight	CourierStatus	Tracking	Number	DeliveryD	ate	JserlD	Emplo	yeelD	ServiceID	LocationID
N	ladurai,	Tamil Nadu		2.50	In Transit	TN12345	5	2025-03-2	25	1	1		2	4
N	ladurai,	Tamil Nadu		3.70	In Transit	TN12445	5	2025-03-2	25	1	1		2	4
С	hennai,	Tamil Nadu		1.20	Delivered	TN67890)	2025-03-	18	2	2		3	1
С	hennai,	Tamil Nadu		3.10	Pending	TN11223	3	2025-03-2	27	3	3		1	3
С	hennai,	Tamil Nadu		3.10	delivered	TN63824	1	2025-03-2	22	3	3		1	3
С	oimbato	ore, Tamil Na	du	2.00	In Transit	TN33445	5	2025-03-2	22	4	4		4	4
С	oimbato	ore, Tamil Na	adu	0.90	In Transit	TN33445	5	2025-03-2	22	4	4		4	2
С	oimbato	ore, Tamil Na	idu	2.00	delivered	TN65345	5	2025-03-2	20	4	4		4	3
С	oimbato	ore, Tamil Na	du	2.00	delivered	TN65345	5	2025-03-2	20	4	4		4	3
N	ladurai,	Tamil Nadu		1.50	Processing	TN55667	7	2025-03-2	21	5	5		5	5
N	1adurai,	Tamil Nadu		1.50	delivered	TN90809	9	2025-03-2	23	5	5		NULL	5
N	IULL			NULL	NULL	NULL		NULL		NULL	NULL		NULL	NULL
N	IULL			NULL	NULL	NULL		NULL		NULL	NULL		NULL	NULL
N	IULL			NULL	NULL	NULL		NULL		NULL	NULL		NULL	NULL
N	IULL			NULL	NULL	NULL		NULL		NULL	NULL		NULL	NULL

34. Retrieve a list of all couriers and their corresponding services, including cases where there are no matches on either side

```
select C.*,CS.* from tblCourier C
full outer join tblCourierServices CS on C.ServiceID = CS.ServiceID
```

	CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	CourierWeight	CourierStatus	TrackingNumber
1	101	Arun Kumar	Chennai, Tamil Nadu	Deepak R	Madurai, Tamil Nadu	2.50	In Transit	TN12345
2	102	Priya Sharma	Coimbatore, Tamil Nadu	Anjali K	Chennai, Tamil Nadu	1.20	Delivered	TN67890
3	103	Dinesh Kumar	Madurai, Tamil Nadu	Ravi T	Chennai, Tamil Nadu	3.10	Pending	TN11223
4	104	Sowmya R	Trichy, Tamil Nadu	Sneha P	Coimbatore, Tamil Nadu	2.00	In Transit	TN33445
5	105	Vignesh B	Salem, Tamil Nadu	Meera S	Madurai, Tamil Nadu	1.50	Processing	TN55667
6	106	Karthikeyan	Chennai, Tamil Nadu	Deepak R	Madurai, Tamil Nadu	3.70	In Transit	TN12445
7	107	Newton	Trichy, Tamil Nadu	Einstein	Coimbatore, Tamil Nadu	0.90	In Transit	TN33445
8	108	Vikash	Madurai, Tamil Nadu	Ragul	Chennai, Tamil Nadu	3.10	delivered	TN63824
9	109	Prashanth	Trichy, Tamil Nadu	Sneha P	Coimbatore, Tamil Nadu	2.00	delivered	TN65345
10	110	Priya	Salem, Tamil Nadu	Shankar	Madurai, Tamil Nadu	1.50	delivered	TN90809
11	111	Prashanth	Trichy, Tamil Nadu	Prem	Coimbatore, Tamil Nadu	2.00	delivered	TN65345
12	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

r	DeliveryDate	UserID	EmployeeID	ServiceID	LocationID	ServiceID	ServiceName	ServiceCost
	2025-03-25	1	1	2	4	2	Express Delivery	200.00
	2025-03-18	2	2	3	1	3	Same Day Delivery	350.00
	2025-03-27	3	3	1	3	1	Standard Delivery	100.00
	2025-03-22	4	4	4	4	4	Overnight Delivery	500.00
	2025-03-21	5	5	5	5	5	Insurance Coverage	100.00
	2025-03-25	1	1	2	4	2	Express Delivery	200.00
	2025-03-22	4	4	4	2	4	Overnight Delivery	500.00
	2025-03-22	3	3	1	3	1	Standard Delivery	100.00
	2025-03-20	4	4	4	3	4	Overnight Delivery	500.00
	2025-03-23	5	5	NULL	5	NULL	NULL	NULL
	2025-03-20	4	4	4	3	4	Overnight Delivery	500.00
	NULL	NULL	NULL	NULL	NULL	6	Fragile Item Handling	75.00

35. Retrieve a list of all employees and their corresponding payments, including cases where there are no matches on either side

```
select E.*,P.* from tblEmployee E
full outer join tblPayment P on E.EmployeeID = P.EmployeeID
```

	_	-										
	EmployeeID	EmployeeName	EmployeeEmail	EmployeeContact	EmployeeRole	EmployeeSalary	PaymentID	CourierID	locationID	Amount	PaymentDate	EmployeelD
1	1	Vikram R	vikram.r@example.com	9876541230	Delivery Agent	25000.00	5	105	5	75.00	2025-03-01	1
2	1	Vikram R	vikram.r@example.com	9876541230	Delivery Agent	25000.00	7	107	4	500.00	2025-03-21	1
3	2	Meena L	meena.l@example.com	9845123456	Manager	50000.00	2	102	2	6000.00	2025-03-18	2
4	2	Meena L	meena.l@example.com	9845123456	Manager	50000.00	9	109	1	1200.00	2025-03-20	2
5	2	Meena L	meena.l@example.com	9845123456	Manager	50000.00	10	110	4	500.00	2025-03-20	2
6	3	Karthik S	karthik.s@example.com	9785612345	Delivery Agent	27000.00	6	106	1	1100.00	2025-03-20	3
7	3	Karthik S	karthik.s@example.com	9785612345	Delivery Agent	27000.00	8	108	5	75.00	2025-03-15	3
8	4	Lavanya M	lavanya.m@example.com	9823456789	Supervisor	60000.00	4	104	4	500.00	2025-03-22	4
9	5	Senthil K	senthil.k@example.com	9798765432	Delivery Agent	26000.00	1	101	1	3000.00	2025-03-24	5
10	6	John	JohnCena@example.com	9798765431	Supervisor	55000.00	3	103	3	100.00	2025-03-26	6
11	7	Johnson	Johnson@example.com	9798765430	Manager	52000.00	NULL	NULL	NULL	NULL	NULL	NULL

36. List all users and all courier services, showing all possible combinations.

select U.*,CS.* from tblUser U
cross join tblCourierServices CS

	UserID	UserName	UserEmail	UserPassword	UserContact	UserAddress	ServiceID	ServiceName	ServiceCost
1	1	Arun Kumar	arun.kumar@example.com	pass123	9876543210	Chennai, Tamil Nadu	1	Standard Delivery	100.00
2	2	Priya Sharma	priya.sharma@example.com	secure456	9898989898	Coimbatore, Tamil Nadu	1	Standard Delivery	100.00
3	3	Dinesh Kumar	dinesh.k@example.com	password789	9876512345	Madurai, Tamil Nadu	1	Standard Delivery	100.00
4	4	Sowmya R	sowmya.r@example.com	pass999	9867543210	Trichy, Tamil Nadu	1	Standard Delivery	100.00
5	5	Vignesh B	vignesh.b@example.com	secure555	9944556677	Salem, Tamil Nadu	1	Standard Delivery	100.00
6	6	Vikash	vikash2003@example.com	ToughPass35	9546595473	Madurai, Tamil Nadu	1	Standard Delivery	100.00
7	7	Prashanth	Prashanth03@example.com	PrashPass35	9876595472	Trichy, Tamil Nadu	1	Standard Delivery	100.00
8	8	Priya	Priya43@example.com	Priya678	9876595473	Salem, Tamil Nadu	1	Standard Delivery	100.00
9	9	kaviya	kavi03@example.com	kaviya321	9812345473	Coimbatore, Tamil Nadu	1	Standard Delivery	100.00
10	1	Arun Kumar	arun.kumar@example.com	pass123	9876543210	Chennai, Tamil Nadu	2	Express Delivery	200.00
11	2	Priya Sharma	priya.sharma@example.com	secure456	9898989898	Coimbatore, Tamil Nadu	2	Express Delivery	200.00
12	3	Dinesh Kumar	dinesh.k@example.com	password789	9876512345	Madurai, Tamil Nadu	2	Express Delivery	200.00
13	4	Sowmya R	sowmya.r@example.com	pass999	9867543210	Trichy, Tamil Nadu	2	Express Delivery	200.00
14	5	Vignesh B	vignesh.b@example.com	secure555	9944556677	Salem, Tamil Nadu	2	Express Delivery	200.00
15	6	Vikash	vikash2003@example.com	ToughPass35	9546595473	Madurai, Tamil Nadu	2	Express Delivery	200.00
16	7	Prashanth	Prashanth03@example.com	PrashPass35	9876595472	Trichy, Tamil Nadu	2	Express Delivery	200.00
17	8	Priya	Priya43@example.com	Priya678	9876595473	Salem, Tamil Nadu	2	Express Delivery	200.00
18	9	kaviya	kavi03@example.com	kaviya321	9812345473	Coimbatore, Tamil Nadu	2	Express Delivery	200.00
19	1	Arun Kumar	arun.kumar@example.com	pass123	9876543210	Chennai, Tamil Nadu	3	Same Day Delivery	350.00

20	2	Daine Charme		450	000000000	Calminatana Tamil Maria	2	C D D-li	250.00
20	2	Priya Sharma	priya.sharma@example.com	secure456	9898989898	Coimbatore, Tamil Nadu	3	Same Day Delivery	350.00
21	-	Dinesh Kumar	dinesh.k@example.com	password789	9876512345	Madurai, Tamil Nadu	-	Same Day Delivery	350.00
22	4	Sowmya R	sowmya.r@example.com	pass999	9867543210	Trichy, Tamil Nadu	3	Same Day Delivery	350.00
23	5	Vignesh B	vignesh.b@example.com	secure555	9944556677	Salem, Tamil Nadu	3	Same Day Delivery	350.00
24	6	Vikash	vikash2003@example.com	ToughPass35	9546595473	Madurai, Tamil Nadu	3	Same Day Delivery	350.00
25	7	Prashanth	Prashanth03@example.com	PrashPass35	9876595472	Trichy, Tamil Nadu	3	Same Day Delivery	350.00
26	8	Priya	Priya43@example.com	Priya678	9876595473	Salem, Tamil Nadu	3	Same Day Delivery	350.00
27	9	kaviya	kavi03@example.com	kaviya321	9812345473	Coimbatore, Tamil Nadu	3	Same Day Delivery	350.00
28	1	Arun Kumar	arun.kumar@example.com	pass123	9876543210	Chennai, Tamil Nadu	4	Overnight Delivery	500.00
29	2	Priya Sharma	priya.sharma@example.com	secure456	9898989898	Coimbatore, Tamil Nadu	4	Overnight Delivery	500.00
30	3	Dinesh Kumar	dinesh.k@example.com	password789	9876512345	Madurai, Tamil Nadu	4	Overnight Delivery	500.00
31	4	Sowmya R	sowmya.r@example.com	pass999	9867543210	Trichy, Tamil Nadu	4	Overnight Delivery	500.00
32	5	Vignesh B	vignesh.b@example.com	secure555	9944556677	Salem, Tamil Nadu	4	Overnight Delivery	500.00
33	6	Vikash	vikash2003@example.com	ToughPass35	9546595473	Madurai, Tamil Nadu	4	Overnight Delivery	500.00
34	7	Prashanth	Prashanth03@example.com	PrashPass35	9876595472	Trichy, Tamil Nadu	4	Overnight Delivery	500.00
35	8	Priya	Priya43@example.com	Priya678	9876595473	Salem, Tamil Nadu	4	Overnight Delivery	500.00
36	9	kaviya	kavi03@example.com	kaviya321	9812345473	Coimbatore, Tamil Nadu	4	Overnight Delivery	500.00
37	1	Arun Kumar	arun.kumar@example.com	pass123	9876543210	Chennai, Tamil Nadu	5	Insurance Cover	100.00
38	2	Priya Sharma	priya.sharma@example.com	secure456	9898989898	Coimbatore, Tamil Nadu	5	Insurance Cover	100.00
39	3	Dinesh Kumar	dinesh.k@example.com	password789	9876512345	Madurai, Tamil Nadu	5	Insurance Cover	100.00
40	4	Sowmya R	sowmya.r@example.com	pass999	9867543210	Trichy, Tamil Nadu	5	Insurance Cover	100.00
41	5	Vignesh B	vignesh.b@example.com	secure555	9944556677	Salem, Tamil Nadu	5	Insurance Cover	100.00
42	6	Vikash	vikash2003@example.com	ToughPass35	9546595473	Madurai, Tamil Nadu	5	Insurance Cover	100.00
43	7	Prashanth	Prashanth03@example.com	PrashPass35	9876595472	Trichy, Tamil Nadu	5	Insurance Cover	100.00
44	8	Priya	Priya43@example.com	Priya678	9876595473	Salem, Tamil Nadu	5	Insurance Cover	100.00
45	9	kaviya	kavi03@example.com	kaviya321	9812345473	Coimbatore, Tamil Nadu	5	Insurance Cover	100.00
46	1	Arun Kumar	arun.kumar@example.com	pass123	9876543210	Chennai, Tamil Nadu	6	Fragile Item Han	75.00
47	2	Priya Sharma	priya.sharma@example.com	secure456	9898989898	Coimbatore, Tamil Nadu	6	Fragile Item Han	75.00
48	3	Dinesh Kumar	dinesh.k@example.com	password789	9876512345	Madurai, Tamil Nadu	6	Fragile Item Han	75.00
49	4	Sowmya R	sowmya.r@example.com	pass999	9867543210	Trichy, Tamil Nadu	6	Fragile Item Han	75.00
50	5	Vignesh B	vignesh.b@example.com	secure555	9944556677	Salem, Tamil Nadu	6	Fragile Item Han	75.00
51	6	Vikash	vikash2003@example.com	ToughPass35	9546595473	Madurai, Tamil Nadu	6	Fragile Item Han	75.00
52	7	Prashanth	Prashanth03@example.com	PrashPass35	9876595472	Trichy, Tamil Nadu	6	Fragile Item Han	75.00
53	8	Priya	Priya43@example.com	Priya678	9876595473	Salem, Tamil Nadu	6	Fragile Item Han	75.00
54	9	kaviya	kavi03@example.com	kaviya321	9812345473	Coimbatore, Tamil Nadu	6	Fragile Item Han	75.00
		<u> </u>	_ '	-				-	

37. List all employees and all locations, showing all possible combinations:

select * from tblEmployee cross join tblLocation

	EmployeeID	EmployeeName	EmployeeEmail	EmployeeContact	EmployeeRole	EmployeeSalary	LocationId	LocationName	LocationAddress
	1	Vikram R	vikram.r@example.com	9876541230	Delivery Agent	25000.00	1	Chennai Hub	Chennai, Tamil Nadu
2	2	Meena L	meena.l@example.com	9845123456	Manager	50000.00	1	Chennai Hub	Chennai, Tamil Nadu
1	3	Karthik S	karthik.s@example.com	9785612345	Delivery Agent	27000.00	1	Chennai Hub	Chennai, Tamil Nadu
ı	4	Lavanya M	lavanya.m@example.com	9823456789	Supervisor	60000.00	1	Chennai Hub	Chennai, Tamil Nadu
5	5	Senthil K	senthil.k@example.com	9798765432	Delivery Agent	26000.00	1	Chennai Hub	Chennai, Tamil Nadu
6	6	John	JohnCena@example.com	9798765431	Supervisor	55000.00	1	Chennai Hub	Chennai, Tamil Nadu
7	7	Johnson	Johnson@example.com	9798765430	Manager	52000.00	1	Chennai Hub	Chennai, Tamil Nadu
8	1	Vikram R	vikram.r@example.com	9876541230	Delivery Agent	25000.00	2	Coimbatore Hub	Coimbatore, Tamil Nadu
9	2	Meena L	meena.l@example.com	9845123456	Manager	50000.00	2	Coimbatore Hub	Coimbatore, Tamil Nadu
10	3	Karthik S	karthik.s@example.com	9785612345	Delivery Agent	27000.00	2	Coimbatore Hub	Coimbatore, Tamil Nadu
11	4	Lavanya M	lavanya.m@example.com	9823456789	Supervisor	60000.00	2	Coimbatore Hub	Coimbatore, Tamil Nadu
12	5	Senthil K	senthil.k@example.com	9798765432	Delivery Agent	26000.00	2	Coimbatore Hub	Coimbatore, Tamil Nadu
13	6	John	JohnCena@example.com	9798765431	Supervisor	55000.00	2	Coimbatore Hub	Coimbatore, Tamil Nadu
14	7	Johnson	Johnson@example.com	9798765430	Manager	52000.00	2	Coimbatore Hub	Coimbatore, Tamil Nadu
15	1	Vikram R	vikram.r@example.com	9876541230	Delivery Agent	25000.00	3	Madurai Hub	Madurai, Tamil Nadu
16	2	Meena L	meena.l@example.com	9845123456	Manager	50000.00	3	Madurai Hub	Madurai, Tamil Nadu
17	3	Karthik S	karthik.s@example.com	9785612345	Delivery Agent	27000.00	3	Madurai Hub	Madurai, Tamil Nadu
18	4	Lavanya M	lavanya.m@example.com	9823456789	Supervisor	60000.00	3	Madurai Hub	Madurai, Tamil Nadu
19	5	Senthil K	senthil.k@example.com	9798765432	Delivery Agent	26000.00	3	Madurai Hub	Madurai, Tamil Nadu
20	6	John	JohnCena@example.com	9798765431	Supervisor	55000.00	3	Madurai Hub	Madurai, Tamil Nadu
21	7	Johnson	Johnson@example.com	9798765430	Manager	52000.00	3	Madurai Hub	Madurai, Tamil Nadu
22	1	Vikram R	vikram.r@example.com	9876541230	Delivery Agent	25000.00	4	Trichy Hub	Trichy, Tamil Nadu
23	2	Meena L	meena.l@example.com	9845123456	Manager	50000.00	4	Trichy Hub	Trichy, Tamil Nadu
24	3	Karthik S	karthik.s@example.com	9785612345	Delivery Agent	27000.00	4	Trichy Hub	Trichy, Tamil Nadu
25	4	Lavanya M	lavanya.m@example.com	9823456789	Supervisor	60000.00	4	Trichy Hub	Trichy, Tamil Nadu
26	5	Senthil K	senthil.k@example.com	9798765432	Delivery Agent	26000.00	4	Trichy Hub	Trichy, Tamil Nadu
27	6	John	JohnCena@example.com	9798765431	Supervisor	55000.00	4	Trichy Hub	Trichy, Tamil Nadu
28	7	Johnson	Johnson@example.com	9798765430	Manager	52000.00	4	Trichy Hub	Trichy, Tamil Nadu
29	1	Vikram R	vikram.r@example.com	9876541230	Delivery Agent	25000.00	5	Salem Hub	Salem, Tamil Nadu
30	2	Meena L	meena.l@example.com	9845123456	Manager	50000.00	5	Salem Hub	Salem, Tamil Nadu
31	3	Karthik S	karthik.s@example.com	9785612345	Delivery Agent	27000.00	5	Salem Hub	Salem, Tamil Nadu
32	4	Lavanya M	lavanya.m@example.com	9823456789	Supervisor	60000.00	5	Salem Hub	Salem, Tamil Nadu
33	5	Senthil K	senthil.k@example.com	9798765432	Delivery Agent	26000.00	5	Salem Hub	Salem, Tamil Nadu
34	6	John	JohnCena@example.com	9798765431	Supervisor	55000.00	5	Salem Hub	Salem, Tamil Nadu
35	7	Johnson	Johnson@example.com	9798765430	Manager	52000.00	5	Salem Hub	Salem, Tamil Nadu
36	1	Vikram R	vikram.r@example.com	9876541230	Delivery Agent	25000.00	6	Erode Hub	Erode, Tamil Nadu
37	2	Meena L	meena.l@example.com	9845123456	Manager	50000.00	6	Erode Hub	Erode, Tamil Nadu
38	3	Karthik S	karthik.s@example.com	9785612345	Delivery Agent	27000.00	6	Erode Hub	Erode, Tamil Nadu
39	4	Lavanya M	lavanya.m@example.com	9823456789	Supervisor	60000.00	6	Erode Hub	Erode, Tamil Nadu
40	5	Senthil K	senthil.k@example.com	9798765432	Delivery Agent	26000.00	6	Erode Hub	Erode, Tamil Nadu
41	6	John	JohnCena@example.com	9798765431	Supervisor	55000.00	6	Erode Hub	Erode, Tamil Nadu
42	7	Johnson	Johnson@example.com	9798765430	Manager	52000.00	6	Erode Hub	Erode, Tamil Nadu

38. Retrieve a list of couriers and their corresponding sender information (if available)

select CourierID, SenderName, SenderAddress from tblCourier

Results Messages									
	CourierID	SenderName	SenderAddress						
1	101	Arun Kumar	Chennai, Tamil Nadu						
2	102	Priya Sharma	Coimbatore, Tamil Nadu						
3	103	Dinesh Kumar	Madurai, Tamil Nadu						
4	104	Sowmya R	Trichy, Tamil Nadu						
5	105	Vignesh B	Salem, Tamil Nadu						
6	106	Karthikeyan	Chennai, Tamil Nadu						
7	107	Newton	Trichy, Tamil Nadu						
8	108	Vikash	Madurai, Tamil Nadu						
9	109	Prashanth	Trichy, Tamil Nadu						
10	110	Priya	Salem, Tamil Nadu						
11	111	Prashanth	Trichy, Tamil Nadu						

39. Retrieve a list of couriers and their corresponding receiver information (if available):

select CourierID, ReceiverName, ReceiverAddress from tblCourier

	CourierID	ReceiverName	ReceiverAddress
1	101	Deepak R	Madurai, Tamil Nadu
2	102	Anjali K	Chennai, Tamil Nadu
3	103	Ravi T	Chennai, Tamil Nadu
4	104	Sneha P	Coimbatore, Tamil Nadu
5	105	Meera S	Madurai, Tamil Nadu
6	106	Deepak R	Madurai, Tamil Nadu
7	107	Einstein	Coimbatore, Tamil Nadu
8	108	Ragul	Chennai, Tamil Nadu
9	109	Sneha P	Coimbatore, Tamil Nadu
10	110	Shankar	Madurai, Tamil Nadu
11	111	Prem	Coimbatore, Tamil Nadu

40. Retrieve a list of couriers along with the courier service details (if available):

```
select C.*,CS.* from tblCourier C
left join tblCourierServices CS on C.ServiceID = CS.ServiceID
```

	CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	CourierWeight	CourierStatus	TrackingNumber
1	101	Arun Kumar	Chennai, Tamil Nadu	Deepak R	Madurai, Tamil Nadu	2.50	In Transit	TN12345
2	102	Priya Sharma	Coimbatore, Tamil Nadu	Anjali K	Chennai, Tamil Nadu	1.20	Delivered	TN67890
3	103	Dinesh Kumar	Madurai, Tamil Nadu	Ravi T	Chennai, Tamil Nadu	3.10	Pending	TN11223
4	104	Sowmya R	Trichy, Tamil Nadu	Sneha P	Coimbatore, Tamil Nadu	2.00	In Transit	TN33445
5	105	Vignesh B	Salem, Tamil Nadu	Meera S	Madurai, Tamil Nadu	1.50	Processing	TN55667
6	106	Karthikeyan	Chennai, Tamil Nadu	Deepak R	Madurai, Tamil Nadu	3.70	In Transit	TN12445
7	107	Newton	Trichy, Tamil Nadu	Einstein	Coimbatore, Tamil Nadu	0.90	In Transit	TN33445
8	108	Vikash	Madurai, Tamil Nadu	Ragul	Chennai, Tamil Nadu	3.10	delivered	TN63824
9	109	Prashanth	Trichy, Tamil Nadu	Sneha P	Coimbatore, Tamil Nadu	2.00	delivered	TN65345
10	110	Priya	Salem, Tamil Nadu	Shankar	Madurai, Tamil Nadu	1.50	delivered	TN90809
11	111	Prashanth	Trichy, Tamil Nadu	Prem	Coimbatore, Tamil Nadu	2.00	delivered	TN65345

)	UserID	EmployeeID	ServiceID	LocationID	ServiceID	ServiceName	ServiceCost
	1	1	2	4	2	Express Delivery	200.00
	2	2	3	1	3	Same Day Delivery	350.00
	3	3	1	3	1	Standard Delivery	100.00
	4	4	4	4	4	Overnight Delivery	500.00
	5	5	5	5	5	Insurance Coverage	100.00
	1	1	2	4	2	Express Delivery	200.00
	4	4	4	2	4	Overnight Delivery	500.00
	3	3	1	3	1	Standard Delivery	100.00
	4	4	4	3	4	Overnight Delivery	500.00
	5	5	NULL	5	NULL	NULL	NULL
	4	4	4	3	4	Overnight Delivery	500.00

41. Retrieve a list of employees and the number of couriers assigned to each employee:

```
select E.EmployeeID,E.EmployeeName,count(C.EmployeeID) as 'Number of Couriers
Assigned' from tblCourier C
right join tblEmployee E on C.EmployeeID = E.EmployeeID
group by E.EmployeeID,E.EmployeeName;
```

	EmployeeID	EmployeeName	Number of Couriers Assigned
1	1	Vikram R	2
2	2	Meena L	1
3	3	Karthik S	2
4	4	Lavanya M	4
5	5	Senthil K	2
6	6	John	0
7	7	Johnson	0

42. Retrieve a list of locations and the total payment amount received at each location:

```
select L.LocationId,L.LocationName,sum(P.Amount) as 'Total Payment' from tblPayment P
right join tblLocation L on P.LocationId = L.locationID
group by L.LocationId,L.LocationName
```

	LocationId	LocationName	Total Payment
1	1	Chennai Hub	5300.00
2	2	Coimbatore Hub	6000.00
3	3	Madurai Hub	100.00
4	4	Trichy Hub	1500.00
5	5	Salem Hub	150.00
6	6	Erode Hub	NULL

43. Retrieve all couriers sent by the same sender (based on SenderName).

```
select C1.* from tblCourier C1
inner join tblCourier C2 on C1.SenderName = C2.SenderName
where C1.CourierID <> C2.CourierID
```

	Ele mosados												
Cr	CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	CourierWeight	CourierStatus	TrackingNumber	DeliveryDate	UserlD	EmployeeID	ServiceID	LocationID
1 10	109	Prashanth	Trichy, Tamil Nadu	Sneha P	Coimbatore, Tamil Nadu	2.00	delivered	TN65345	2025-03-20	4	4	4	3
2 11	111	Prashanth	Trichy, Tamil Nadu	Prem	Coimbatore, Tamil Nadu	2.00	delivered	TN65345	2025-03-20	4	4	4	3

44. List all employees who share the same role.

```
select EmployeeID, EmployeeName, EmployeeRole
from tblEmployee e1
where EXISTS (
    select 'a' from tblEmployee e2
    where e1.EmployeeRole = e2.EmployeeRole
    and e1.EmployeeID <> e2.EmployeeID
)
order by EmployeeRole asc;
```

ш.	🖃 IV	lossagos	
	EmployeeID	EmployeeName	EmployeeRole
1	1	Vikram R	Delivery Agent
2	3	Karthik S	Delivery Agent
3	5	Senthil K	Delivery Agent
4	7	Johnson	Manager
5	2	Meena L	Manager
6	4	Lavanya M	Supervisor
7	6	John	Supervisor

45. Retrieve all payments made for couriers sent from the same location.

```
select * from tblPayment P1
where exists(
          select 1 from tblPayment P2
          where P1.locationID=P2.locationID
          and P1.CourierID <> P2.CourierID
          )
order by P1.locationID
```

	PaymentID	CourierID	locationID	Amount	PaymentDate	EmployeeID
1	1	101	1	3000.00	2025-03-24	5
2	6	106	1	1100.00	2025-03-20	3
3	9	109	1	1200.00	2025-03-20	2
4	10	110	4	500.00	2025-03-20	2
5	7	107	4	500.00	2025-03-21	1
6	4	104	4	500.00	2025-03-22	4
7	5	105	5	75.00	2025-03-01	1
8	8	108	5	75.00	2025-03-15	3

46. Retrieve all couriers sent from the same location (based on SenderAddress).

```
select * from tblCourier C1
where exists(
          select 1 from tblCourier C2
          where cast(C1.SenderAddress as varchar(max))=cast((C2.SenderAddress) as
varchar(max))
          and C1.CourierID <> C2.CourierID
          )
order by cast(C1.SenderAddress as varchar(max))
```

	=-	3											
	CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	CourierWeight	CourierStatus	TrackingNumber	DeliveryDate	UserlD	EmployeelD	ServiceID	LocationID
1	101	Arun Kumar	Chennai, Tamil Nadu	Deepak R	Madurai, Tamil Nadu	2.50	In Transit	TN12345	2025-03-25	1	1	2	4
2	106	Karthikeyan	Chennai, Tamil Nadu	Deepak R	Madurai, Tamil Nadu	3.70	In Transit	TN12445	2025-03-25	1	1	2	4
3	103	Dinesh Kumar	Madurai, Tamil Nadu	Ravi T	Chennai, Tamil Nadu	3.10	Pending	TN11223	2025-03-27	3	3	1	3
4	108	Vikash	Madurai, Tamil Nadu	Ragul	Chennai, Tamil Nadu	3.10	delivered	TN63824	2025-03-22	3	3	1	3
5	110	Priya	Salem, Tamil Nadu	Shankar	Madurai, Tamil Nadu	1.50	delivered	TN90809	2025-03-23	5	5	NULL	5
6	105	Vignesh B	Salem, Tamil Nadu	Meera S	Madurai, Tamil Nadu	1.50	Processing	TN55667	2025-03-21	5	5	5	5
7	111	Prashanth	Trichy, Tamil Nadu	Prem	Coimbatore, Tamil Nadu	2.00	delivered	TN65345	2025-03-20	4	4	4	3
8	109	Prashanth	Trichy, Tamil Nadu	Sneha P	Coimbatore, Tamil Nadu	2.00	delivered	TN65345	2025-03-20	4	4	4	3
9	104	Sowmya R	Trichy, Tamil Nadu	Sneha P	Coimbatore, Tamil Nadu	2.00	In Transit	TN33445	2025-03-22	4	4	4	4
10	107	Newton	Trichy, Tamil Nadu	Einstein	Coimbatore, Tamil Nadu	0.90	In Transit	TN33445	2025-03-22	4	4	4	2

47. List employees and the number of couriers they have delivered:

```
select E.EmployeeID, E.EmployeeName, Count(C.EmployeeID) as 'No of Couriers Delivered'
from tblCourier C
right join tblEmployee E on C.EmployeeID = E.EmployeeID
group by E.EmployeeID, E.EmployeeName
```

	□	9	
	EmployeeID	EmployeeName	No of Couriers Delivered
1	1	Vikram R	2
2	2	Meena L	1
3	3	Karthik S	2
4	4	Lavanya M	4
5	5	Senthil K	2
6	6	John	0
7	7	Johnson	0

48. Find couriers that were paid an amount greater than the cost of their respective courier services

```
select
         C.CourierID,
        C.SenderName,
        C.SenderAddress,
        C.ReceiverName,
        C.ReceiverAddress,
        C.CourierWeight,
        C.CourierStatus,
         C.TrackingNumber,
         C.DeliveryDate,
         P.Amount,
         CS.ServiceCost
from tblCourier C
join tblPayment P on C.CourierID = P.CourierID
join tblCourierServices CS on C.ServiceID= CS.ServiceID
where P.Amount>CS.ServiceCost
CourierID SenderName SenderAddress
                                   ReceiverName ReceiverAddress
                                                             CourierWeight CourierStatus TrackingNumber DeliveryDate Amount ServiceCost
                                             Madurai, Tamil Nadu 2.50
    101
         Arun Kumar Chennai, Tamil Nadu Deepak R
                                                                      In Transit TN12345
                                                                                           2025-03-25 3000.00 200.00
2
   102
           Priya Sharma Coimbatore, Tamil Nadu Anjali K
                                             Chennai, Tamil Nadu 1.20
                                                                     Delivered TN67890
                                                                                           2025-03-18 6000.00 350.00
                                                                      In Transit TN12445
   106
           Karthikeyan Chennai, Tamil Nadu Deepak R
                                             Madurai, Tamil Nadu 3.70
                                                                                           2025-03-25 1100.00 200.00
3
4
    109
           Prashanth
                    Trichy, Tamil Nadu
                                   Sneha P
                                              Coimbatore, Tamil Nadu 2.00
                                                                       delivered TN65345
                                                                                           2025-03-20 1200.00 500.00
```

Scope: Inner Queries, Non Equi Joins, Equi joins, Exist, Any, All

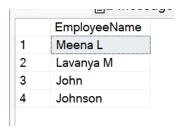
49. Find couriers that have a weight greater than the average weight of all couriers

```
select * from tblCourier
where CourierWeight > ( select avg(CourierWeight) as 'Average Weight' from
tblCourier);
```

CourierID SenderName SenderAddress ReceiverName ReceiverAddress CourierWeight CourierStatus TrackingNumber DeliveryDate UserID EmployeeID ServiceID 1 101											-	_	
2 103 Dinesh Kumar Madurai, Tamil Nadu Ravi T Chennai, Tamil Nadu 3.10 Pending TN11223 2025-03-27 3 3 1 3 106 Karthikeyan Chennai, Tamil Nadu Deepak R Madurai, Tamil Nadu 3.70 In Transit TN12445 2025-03-25 1 1 2	ID ServiceID LocationII	EmployeeID	UserlD	DeliveryDate	TrackingNumber	CourierStatus	CourierWeight	ReceiverAddress	ReceiverName	SenderAddress	SenderName	CourierID	
3 106 Karthikeyan Chennai, Tamil Nadu Deepak R Madurai, Tamil Nadu 3.70 In Transit TN12445 2025-03-25 1 1 2	2 4	1	1	2025-03-25	TN12345	In Transit	2.50	Madurai, Tamil Nadu	Deepak R	Chennai, Tamil Nadu	Arun Kumar	101	1
	1 3	3	3	2025-03-27	TN11223	Pending	3.10	Chennai, Tamil Nadu	Ravi T	Madurai, Tamil Nadu	Dinesh Kumar	103	2
4 108 Vikash Madurai Tamil Nadu Ragul Chennai Tamil Nadu 3.10 delivered TN63824 2025-03-22 3 3 1	2 4	1	1	2025-03-25	TN12445	In Transit	3.70	Madurai, Tamil Nadu	Deepak R	Chennai, Tamil Nadu	Karthikeyan	106	3
The vines in made in the control of	1 3	3	3	2025-03-22	TN63824	delivered	3.10	Chennai, Tamil Nadu	Ragul	Madurai, Tamil Nadu	Vikash	108	4

50. Find the names of all employees who have a salary greater than the average salary:

```
select EmployeeName
from tblEmployee
where EmployeeSalary > ( select avg(EmployeeSalary) as 'Average Salary' from
tblEmployee )
```



51. Find the total cost of all courier services where the cost is less than the maximum cost

```
select sum(ServiceCost) as 'Total Cost'
from tblCourierServices
where ServiceCost < (select max(ServiceCost) from tblCourierServices)

Total Cost
1 825.00</pre>
```

52. Find all couriers that have been paid for

```
select * from tblCourier
where CourierID in (select CourierID from tblPayment)
```

	CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	CourierWeight	CourierStatus	TrackingNumber	DeliveryDate	UserID	EmployeeID	ServiceID	Location
1	101	Arun Kumar	Chennai, Tamil Nadu	Deepak R	Madurai, Tamil Nadu	2.50	In Transit	TN12345	2025-03-25	1	1	2	4
2	102	Priya Sharma	Coimbatore, Tamil Nadu	Anjali K	Chennai, Tamil Nadu	1.20	Delivered	TN67890	2025-03-18	2	2	3	1
3	103	Dinesh Kumar	Madurai, Tamil Nadu	Ravi T	Chennai, Tamil Nadu	3.10	Pending	TN11223	2025-03-27	3	3	1	3
4	104	Sowmya R	Trichy, Tamil Nadu	Sneha P	Coimbatore, Tamil Nadu	2.00	In Transit	TN33445	2025-03-22	4	4	4	4
5	105	Vignesh B	Salem, Tamil Nadu	Meera S	Madurai, Tamil Nadu	1.50	Processing	TN55667	2025-03-21	5	5	5	5
6	106	Karthikeyan	Chennai, Tamil Nadu	Deepak R	Madurai, Tamil Nadu	3.70	In Transit	TN12445	2025-03-25	1	1	2	4
7	107	Newton	Trichy, Tamil Nadu	Einstein	Coimbatore, Tamil Nadu	0.90	In Transit	TN33445	2025-03-22	4	4	4	2
3	108	Vikash	Madurai, Tamil Nadu	Ragul	Chennai, Tamil Nadu	3.10	delivered	TN63824	2025-03-22	3	3	1	3
)	109	Prashanth	Trichy, Tamil Nadu	Sneha P	Coimbatore, Tamil Nadu	2.00	delivered	TN65345	2025-03-20	4	4	4	3
10	110	Priya	Salem, Tamil Nadu	Shankar	Madurai, Tamil Nadu	1.50	delivered	TN90809	2025-03-23	5	5	NULL	5

53. Find the locations where the maximum payment amount was made

```
select top 1* from tblLocation L
join(
select LocationID,sum(Amount) as 'Total Payment' from tblPayment
group by LocationID
) P
on L.LocationId=P.locationID
order by 'Total Payment' desc
```

	==	ooougoo			
	LocationId	LocationName	LocationAddress	LocationID	Total Payment
1	2	Coimbatore Hub	Coimbatore, Tamil Nadu	2	6000.00

54. Find all couriers whose weight is greater than the weight of all couriers sent by a specific sender (e.g., 'SenderName'):

```
select * from tblCourier
where CourierWeight > all(
select CourierWeight from tblCourier
where SenderName = 'Prashanth'
)
```

	_												
	CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	CourierWeight	CourierStatus	TrackingNumber	DeliveryDate	UserID	EmployeeID	ServicelD	LocationID
1	101	Arun Kumar	Chennai, Tamil Nadu	Deepak R	Madurai, Tamil Nadu	2.50	In Transit	TN12345	2025-03-25	1	1	2	4
2	103	Dinesh Kumar	Madurai, Tamil Nadu	Ravi T	Chennai, Tamil Nadu	3.10	Pending	TN11223	2025-03-27	3	3	1	3
3	106	Karthikeyan	Chennai, Tamil Nadu	Deepak R	Madurai, Tamil Nadu	3.70	In Transit	TN12445	2025-03-25	1	1	2	4
4	108	Vikash	Madurai, Tamil Nadu	Ragul	Chennai, Tamil Nadu	3.10	delivered	TN63824	2025-03-22	3	3	1	3