

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. Requirements:

- Define the Database Schema
- Create SQL tables for entities such as User, Courier, Employee, Location, Payment
- Define relationships between these tables (one-to-many, many-to-many, etc.).
- Populate Sample Data
- Insert sample data into the tables to simulate real-world scenarios.

```
548 •     use Courier_Management_System;
549
550 •     CREATE TABLE Customers (
551         UserID INT PRIMARY KEY AUTO_INCREMENT,
552         Name VARCHAR(255),
553         Email VARCHAR(255) UNIQUE,
554         Password VARCHAR(255) NOT NULL,
555         ContactNumber VARCHAR(20),
556         Address TEXT
557     );
558
559 •     CREATE TABLE Couriers (
560         CourierID INT PRIMARY KEY AUTO_INCREMENT,
561         SenderName VARCHAR(255),
562         SenderAddress TEXT,
563         ReceiverName VARCHAR(255),
564         ReceiverAddress TEXT,
565         Weight DECIMAL(5, 2),
566         Status VARCHAR(50),
567         TrackingNumber VARCHAR(20) UNIQUE,
568         DeliveryDate DATE
569     );
```

```
571 • CREATE TABLE CourierServices (
572     ServiceID INT PRIMARY KEY AUTO_INCREMENT,
573     ServiceName VARCHAR(100),
574     Cost DECIMAL(8, 2)
575 );
576
577 • CREATE TABLE Employees (
578     EmployeeID INT PRIMARY KEY AUTO_INCREMENT,
579     Name VARCHAR(255),
580     Email VARCHAR(255) UNIQUE,
581     ContactNumber VARCHAR(20),
582     Role VARCHAR(50),
583     Salary DECIMAL(10, 2)
584 );
585
586 • CREATE TABLE Locations (
587     LocationID INT PRIMARY KEY AUTO_INCREMENT,
588     LocationName VARCHAR(100),
589     Address TEXT
590 );
591
592 • CREATE TABLE Payments (
593     PaymentID INT PRIMARY KEY AUTO_INCREMENT,
594     CourierID INT,
595     LocationID INT,
596     Amount DECIMAL(10, 2),
597     PaymentDate DATE,
598     FOREIGN KEY (CourierID) REFERENCES Couriers(CourierID),
599     FOREIGN KEY (LocationID) REFERENCES Locations(LocationID)
600 );
601
602 • INSERT INTO Customers (UserID, Name, Email, Password, ContactNumber, Address)
603     VALUES
604     (1, 'John Doe', 'john.doe@email.com', 'password123', '123-456-7890', '123 Main Street'),
605     (2, 'Jane Doe', 'jane.doe@email.com', 'password456', '987-654-3210', '456 Park Avenue'),
606     (3, 'Mike Smith', 'mike.smith@email.com', 'password789', '555-555-5555', '789 Elm Street'),
607     (4, 'Alice Johnson', 'alice.johnson@email.com', 'password000', '000-000-0000', '000 Oak Lane'),
608     (5, 'Bob Williams', 'bob.williams@email.com', 'password111', '111-111-1111', '111 Maple Street'),
609     (6, 'Sarah Brown', 'sarah.brown@email.com', 'password222', '222-222-2222', '222 Birch Drive'),
610     (7, 'David Miller', 'david.miller@email.com', 'password333', '333-333-3333', '333 Pine Avenue'),
611     (8, 'Susan Garcia', 'susan.garcia@email.com', 'password444', '444-444-4444', '444 Elmwood Court'),
612     (9, 'Daniel Lopez', 'daniel.lopez@email.com', 'password555', '555-555-5555', '555 Sunset Boulevard'),
613     (10, 'Maria Hernandez', 'maria.hernandez@email.com', 'password666', '666-666-6666', '666 Ocean Drive');
614
```

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```
615 • INSERT INTO Couriers (SenderName, SenderAddress, ReceiverName, ReceiverAddress, Weight, Status, TrackingNumber, DeliveryDate)
616     VALUES
617     ('John Doe', '123 Main Street', 'Jane Doe', '456 Park Avenue', 1.5, 'Pending', 'ABC123', '2023-10-27'),
618     ('Mike Smith', '789 Elm Street', 'Alice Johnson', '000 Oak Lane', 2.3, 'Pickup', 'DEF456', '2023-10-28'),
619     ('Bob Williams', '111 Maple Street', 'Sarah Brown', '222 Birch Drive', 3.1, 'In Transit', 'GHI789', '2023-10-29'),
620     ('David Miller', '333 Pine Avenue', 'Susan Garcia', '444 Elmwood Court', 4.2, 'Delivered', 'JKL012', '2023-10-26'),
621     ('Daniel Lopez', '555 Sunset Boulevard', 'Maria Hernandez', '666 Ocean Drive', 5.4, 'Pending', 'MNO345', '2023-10-30'),
622     ('Jane Doe', '456 Park Avenue', 'John Doe', '123 Main Street', 0.8, 'Delivered', 'PQR678', '2023-10-25'),
623     ('Alice Johnson', '000 Oak Lane', 'Mike Smith', '789 Elm Street', 1.7, 'Pickup', 'STU901', '2023-10-31'),
624     ('Sarah Brown', '222 Birch Drive', 'Bob Williams', '111 Maple Street', 2.5, 'Pending', 'VWX234', '2023-11-01'),
625     ('Susan Garcia', '444 Elmwood Court', 'David Miller', '333 Pine Avenue', 3.3, 'Delivered', 'YZ1234', '2023-10-24'),
626     ('Maria Hernandez', '666 Ocean Drive', 'Daniel Lopez', '555 Sunset Boulevard', 4.1, 'In Transit', 'ABC5678', '2023-11-02');
627
628 • INSERT INTO CourierServices (ServiceName, Cost)
629     VALUES
630     ('Standard', 5.00),
631     ('Express', 10.00),
632     ('Overnight', 15.00),
633     ('Next Day', 20.00),
634     ('International', 25.00),
635     ('Refrigerated', 30.00),
636     ('Fragile', 35.00),
637     ('Hazardous Materials', 40.00),
638     ('Large Package', 45.00),
639     ('Extra Heavy', 50.00);
640
641 • INSERT INTO Employees (Name, Email, ContactNumber, Role, Salary)
642     VALUES
643     ('John Smith', 'john.smith@email.com', '123-456-7890', 'Manager', 50000.00),
644     ('Jane Doe', 'jane.doe@email.com', '987-654-3210', 'Delivery Specialist', 35000.00),
645     ('Mike Johnson', 'mike.johnson@email.com', '555-555-5555', 'Customer Support Representative', 40000.00),
646     ('Alice Garcia', 'alice.garcia@email.com', '000-000-0000', 'Marketing Manager', 45000.00),
647     ('Bob Miller', 'bob.miller@email.com', '111-111-1111', 'IT Administrator', 55000.00),
648     ('Sarah Lopez', 'sarah.lopez@email.com', '222-222-2222', 'Accountant', 42000.00),
649     ('David Hernandez', 'david.hernandez@email.com', '333-333-3333', 'HR Manager', 48000.00),
650     ('Susan Williams', 'susan.williams@email.com', '444-444-4444', 'Warehouse Manager', 40000.00),
651     ('Daniel Brown', 'daniel.brown@email.com', '555-555-5555', 'Driver', 32000.00),
652     ('Maria Jones', 'maria.jones@email.com', '666-666-6666', 'Cleaning Staff', 25000.00);
653
654 • INSERT INTO Locations (LocationName, Address)
655     VALUES
656     ('Main Branch', '123 Main Street, New York, NY 10001'),
657     ('West Branch', '456 Park Avenue, Los Angeles, CA 90001'),
658     ('North Branch', '789 Elm Street, Chicago, IL 60601'),
659     ('East Branch', '000 Oak Lane, Miami, FL 33133'),
660     ('South Branch', '111 Maple Street, Houston, TX 77002'),
661     ('Delivery Hub 1', '222 Birch Drive, San Francisco, CA 94105'),
662     ('Delivery Hub 2', '333 Pine Avenue, Seattle, WA 98101'),
663     ('Warehouse 1', '444 Elmwood Court, Atlanta, GA 30303'),
664     ('Warehouse 2', '555 Sunset Boulevard, Denver, CO 80203'),
665     ('Distribution Center', '666 Ocean Drive, Philadelphia, PA 19103');
```

```

667 •    INSERT INTO Payments (CourierID, LocationID, Amount, PaymentDate)
668      VALUES
669      (1, 1, 50.00, '2023-10-26'),
670      (2, 2, 100.00, '2023-10-27'),
671      (3, 3, 150.00, '2023-10-28'),
672      (4, 1, 200.00, '2023-10-29'),
673      (5, 2, 250.00, '2023-10-30'),
674      (6, 3, 300.00, '2023-10-31'),
675      (7, 1, 350.00, '2023-11-01'),
676      (8, 2, 400.00, '2023-11-02'),
677      (9, 3, 450.00, '2023-11-03'),
678      (10, 1, 500.00, '2023-11-04');

```

Task 2: Select,Where Solve the following queries in the Schema that you have created above

1. List all customers:

680 • SELECT * FROM Customers;

681

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

	UserID	Name	Email	Password	ContactNumber	Address
▶	1	John Doe	john.doe@email.com	password123	123-456-7890	123 Main Street
	2	Jane Doe	jane.doe@email.com	password456	987-654-3210	456 Park Avenue
	3	Mike Smith	mike.smith@email.com	password789	555-555-5555	789 Elm Street
	4	Alice Johnson	alice.johnson@email.com	password000	000-000-0000	000 Oak Lane
	5	Bob Williams	bob.williams@email.com	password111	111-111-1111	111 Maple Street
	6	Sarah Brown	sarah.brown@email.com	password222	222-222-2222	222 Birch Drive
	7	David Miller	david.miller@email.com	password333	333-333-3333	333 Pine Avenue
	8	Susan Garcia	susan.garcia@email.com	password444	444-444-4444	444 Elmwood Court
	9	Daniel Lopez	daniel.lopez@email.com	password555	555-555-5555	555 Sunset Boulevard
	10	Maria Hernandez	maria.hernandez@email.com	password666	666-666-6666	666 Ocean Drive
*	HULL	HULL	HULL	HULL	HULL	HULL

2. List all orders for a specific customer:

733 • SELECT * FROM Orders WHERE UserID = (SELECT UserID FROM Customers WHERE Name = 'Alice Johnson');

734

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

	OrderID	UserID	CourierID	OrderDate	DeliveryDueDate	Status
▶	4	4	1	2023-10-29	2023-10-30	Pending
*	HULL	HULL	HULL	HULL	HULL	HULL

3. List all couriers:

684 • SELECT * FROM COURIERS;

685

686

4. List all packages for a specific order:

```
737 • SELECT * FROM Couriers WHERE CourierID = (SELECT CourierID FROM Couriers WHERE TrackingNumber = 'ABC123');  
738
```

5. List all deliveries for a specific courier:

739 • SELECT * FROM Couriers WHERE CourierID IN(SELECT CourierID FROM Orders WHERE Status = 'Delivered').
740

6. List all undelivered packages:

```
741 •   SELECT * FROM Parcels WHERE OrderID IN (SELECT OrderID FROM Orders WHERE Status NOT IN ('Delivered', 'Canceled'));
```

743

1

Result Grid		Filter Rows:		Edit:		Export/Import:		Wrap Cell Content:	
ParcelID	OrderID	SenderLocationID	ReceiverLocationID	Weight	Dimensions	Description			
2	2	2	3	5	50x40x20 cm	Electronics			
3	3	3	4	1	20x10x5 cm	Clothes			
4	4	4	1	3	40x30x10 cm	Toys			
6	6	6	3	2	30x20x10 cm	Kitchenware			
7	7	7	4	4	50x40x15 cm	Sporting goods			
8	8	8	1	2	40x30x5 cm	Office supplies			
10	10	10	3	4	50x40x10 cm	Pet supplies			
*	HULL	HULL	HULL	HULL	HULL	HULL			

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

```
743 •   SELECT * FROM Couriers WHERE CourierID IN (SELECT OrderID FROM Orders WHERE DeliveryDueDate = CURDATE());  
744
```

8. List all packages with a specific status:

```
745 •  SELECT * FROM Couriers WHERE Status = 'In Transit';
```

```
746
```

	CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate
▶	3	Bob Williams	111 Maple Street	Sarah Brown	222 Birch Drive	3.10	In Transit	GHI789	2023-10-29
▶	10	Maria Hernandez	666 Ocean Drive	Daniel Lopez	555 Sunset Boulevard	4.10	In Transit	ABC5678	2023-11-02
*	NULL	NULL	HULL	NULL	NULL	NULL	HULL	NULL	HULL

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

```
747 •  SELECT CourierID, COUNT(*) AS TotalPackages
```

```
748     FROM Couriers
```

```
749     GROUP BY CourierID;
```

```
750
```

	CourierID	TotalPackages
▶	1	1
▶	2	1
▶	3	1
▶	4	1
▶	5	1
▶	6	1
▶	7	1
▶	8	1
▶	9	1
▶	10	1

10. Find the average delivery time for each courier

```
751 •  SELECT CourierID, AVG(DATEDIFF(DeliveryDueDate, OrderDate)) AS AvgDeliveryTime
```

```
752     FROM Orders
```

```
753     GROUP BY CourierID;
```

```
754
```

	CourierID	AvgDeliveryTime
▶	1	1.0000
▶	2	1.0000
▶	3	1.0000

11. List all packages with a specific weight range:

755 • SELECT * FROM Couriers WHERE Weight BETWEEN 2.0 AND 5.0;

756

	CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate
▶	2	Mike Smith	789 Elm Street	Alice Johnson	000 Oak Lane	2.30	Pickup	DEF456	2023-10-28
	3	Bob Williams	111 Maple Street	Sarah Brown	222 Birch Drive	3.10	In Transit	GHI789	2023-10-29
	4	David Miller	333 Pine Avenue	Susan Garcia	444 Elmwood Court	4.20	Delivered	JKL012	2023-10-26
	8	Sarah Brown	222 Birch Drive	Bob Williams	111 Maple Street	2.50	Pending	VWX234	2023-11-01
	9	Susan Garcia	444 Elmwood Court	David Miller	333 Pine Avenue	3.30	Delivered	YZ1234	2023-10-24
	10	Maria Hernandez	666 Ocean Drive	Daniel Lopez	555 Sunset Boulevard	4.10	In Transit	ABC5678	2023-11-02
*	HULL	HULL	HULL	HULL	HULL	HULL	HULL	HULL	HULL

12. Retrieve employees whose names contain 'John' .

757 • SELECT * FROM Employees WHERE Name LIKE '%John%';

758

	EmployeeID	Name	Email	ContactNumber	Role	Salary
▶	1	John Smith	john.smith@email.com	123-456-7890	Manager	50000.00
	3	Mike Johnson	mike.johnson@email.com	555-555-5555	Customer Support Representative	40000.00
*	HULL	HULL	HULL	HULL	HULL	HULL

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

```
759 • SELECT c.*  
760   FROM Couriers c  
761     INNER JOIN Payments p ON c.CourierID = p.CourierID  
762   WHERE p.Amount > 50.00;  
763
```

	CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate
▶	2	Mike Smith	789 Elm Street	Alice Johnson	000 Oak Lane	2.30	Pickup	DEF456	2023-10-28
	3	Bob Williams	111 Maple Street	Sarah Brown	222 Birch Drive	3.10	In Transit	GHI789	2023-10-29
	4	David Miller	333 Pine Avenue	Susan Garcia	444 Elmwood Court	4.20	Delivered	JKL012	2023-10-26
	5	Daniel Lopez	555 Sunset Boulevard	Maria Hernandez	666 Ocean Drive	5.40	Pending	MNO345	2023-10-30
	6	Jane Doe	456 Park Avenue	John Doe	123 Main Street	0.80	Delivered	PQR678	2023-10-25
	7	Alice Johnson	000 Oak Lane	Mike Smith	789 Elm Street	1.70	Pickup	STU901	2023-10-31
	8	Sarah Brown	222 Birch Drive	Bob Williams	111 Maple Street	2.50	Pending	VWX234	2023-11-01
	9	Susan Garcia	444 Elmwood Court	David Miller	333 Pine Avenue	3.30	Delivered	YZ1234	2023-10-24
	10	Maria Hernandez	666 Ocean Drive	Daniel Lopez	555 Sunset Boulevard	4.10	In Transit	ABC5678	2023-11-02

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

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

```
764 • SELECT o.EmployeeID, COUNT(*) AS TotalCouriers  
765   FROM Orders o  
766   GROUP BY o.EmployeeID;
```

15. Calculate the total revenue generated by each location

```
768 •   SELECT p.LocationID, SUM(p.Amount) AS TotalRevenue  
769     FROM Payments p  
770     GROUP BY p.LocationID;  
771  
772
```

Result Grid		
	LocationID	TotalRevenue
▶	1	1100.00
	2	750.00
	3	900.00

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

```
773 •   SELECT o.DeliveryLocationID, COUNT(*) AS TotalDeliveries  
774     FROM Orders o  
775     GROUP BY o.DeliveryLocationID;  
---
```

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

```
777 •   SELECT c.*, AVG(DATEDIFF(DeliveryDate, OrderDate)) AS AvgDeliveryTime  
778     FROM Couriers c  
779     INNER JOIN Orders o ON o.CourierID = c.CourierID  
780     GROUP BY c.CourierID  
781     ORDER BY AvgDeliveryTime DESC  
782     LIMIT 1;
```

Result Grid										
	CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate	AvgDeliveryTime
▶	2	Mike Smith	789 Elm Street	Alice Johnson	000 Oak Lane	2.30	Pickup	DEF456	2023-10-28	-2.0000

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

```
784 •   SELECT LocationID, SUM(Amount) AS TotalPayments  
785     FROM Payments  
786     GROUP BY LocationID  
787     HAVING TotalPayments < (SELECT Amount FROM Payments WHERE Amount = 550);
```

19. Calculate Total Payments per Location

```
789 •   SELECT LocationID, SUM(Amount) AS TotalPayments  
790     FROM Payments  
791     GROUP BY LocationID;  
792  
793
```

Result Grid	
LocationID	TotalPayments
1	1100.00
2	750.00
3	900.00

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

```
793 •   SELECT c.CourierID, c.SenderName, SUM(p.Amount) AS TotalPayments  
794     FROM Couriers c  
795     INNER JOIN Payments p ON c.CourierID = p.CourierID  
796     WHERE p.LocationID = 1  
797     GROUP BY c.CourierID  
798     HAVING TotalPayments > 1000;
```

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

```
800 •   SELECT c.*, SUM(p.Amount) AS TotalPayments  
801     FROM Couriers c  
802     JOIN Payments p ON c.CourierID = p.CourierID  
803     WHERE p.PaymentDate > '2022-10-26'  
804     GROUP BY c.CourierID  
805     HAVING TotalPayments > 1000;
```

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

```
807 •   SELECT LocationID, SUM(Amount) AS TotalPayments  
808     FROM Payments  
809     WHERE PaymentDate < '2023-10-26'  
810     GROUP BY LocationID  
811     HAVING TotalPayments > 5000;
```

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

23. Retrieve Payments with Courier Information

```

813 •   SELECT p.*, c.SenderName AS CourierName
814     FROM Payments p
815     INNER JOIN Couriers c ON p.CourierID = c.CourierID;
816

```

	PaymentID	CourierID	LocationID	Amount	PaymentDate	CourierName
▶	1	1	1	50.00	2023-10-26	John Doe
	2	2	2	100.00	2023-10-27	Mike Smith
	3	3	3	150.00	2023-10-28	Bob Williams
	4	4	1	200.00	2023-10-29	David Miller
	5	5	2	250.00	2023-10-30	Daniel Lopez
	6	6	3	300.00	2023-10-31	Jane Doe
	7	7	1	350.00	2023-11-01	Alice Johnson
	8	8	2	400.00	2023-11-02	Sarah Brown
	9	9	3	450.00	2023-11-03	Susan Garcia
	10	10	1	500.00	2023-11-04	Maria Hernandez

24. Retrieve Payments with Location Information

```

817 •   SELECT p.*, l.LocationName AS LocationName
818     FROM Payments p
819     INNER JOIN Locations l ON p.LocationID = l.LocationID;
820
821

```

	PaymentID	CourierID	LocationID	Amount	PaymentDate	LocationName
▶	1	1	1	50.00	2023-10-26	Main Branch
	2	2	2	100.00	2023-10-27	West Branch
	3	3	3	150.00	2023-10-28	North Branch
	4	4	1	200.00	2023-10-29	Main Branch
	5	5	2	250.00	2023-10-30	West Branch
	6	6	3	300.00	2023-10-31	North Branch
	7	7	1	350.00	2023-11-01	Main Branch
	8	8	2	400.00	2023-11-02	West Branch
	9	9	3	450.00	2023-11-03	North Branch
	10	10	1	500.00	2023-11-04	Main Branch

25. Retrieve Payments with Courier and Location Information

```

821 •   SELECT p.*, c.SenderName AS CourierName, l.LocationName AS LocationName
822     FROM Payments p
823     INNER JOIN Couriers c ON p.CourierID = c.CourierID
824     INNER JOIN Locations l ON p.LocationID = l.LocationID;
825
826

```

	PaymentID	CourierID	LocationID	Amount	PaymentDate	CourierName	LocationName
▶	1	1	1	50.00	2023-10-26	John Doe	Main Branch
	2	2	2	100.00	2023-10-27	Mike Smith	West Branch
	3	3	3	150.00	2023-10-28	Bob Williams	North Branch
	4	4	1	200.00	2023-10-29	David Miller	Main Branch
	5	5	2	250.00	2023-10-30	Daniel Lopez	West Branch
	6	6	3	300.00	2023-10-31	Jane Doe	North Branch
	7	7	1	350.00	2023-11-01	Alice Johnson	Main Branch
	8	8	2	400.00	2023-11-02	Sarah Brown	West Branch
	9	9	3	450.00	2023-11-03	Susan Garcia	North Branch
	10	10	1	500.00	2023-11-04	Maria Hernandez	Main Branch

26. List all payments with courier details

```

826 •   SELECT p.*, c.SenderName AS CourierName
827     FROM Payments p
828     LEFT JOIN Couriers c ON p.CourierID = c.CourierID;
829
830

```

	PaymentID	CourierID	LocationID	Amount	PaymentDate	CourierName
▶	1	1	1	50.00	2023-10-26	John Doe
	2	2	2	100.00	2023-10-27	Mike Smith
	3	3	3	150.00	2023-10-28	Bob Williams
	4	4	1	200.00	2023-10-29	David Miller
	5	5	2	250.00	2023-10-30	Daniel Lopez
	6	6	3	300.00	2023-10-31	Jane Doe
	7	7	1	350.00	2023-11-01	Alice Johnson
	8	8	2	400.00	2023-11-02	Sarah Brown
	9	9	3	450.00	2023-11-03	Susan Garcia
	10	10	1	500.00	2023-11-04	Maria Hernandez

27. Total payments received for each courier

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```
830 •   SELECT c.CourierID, c.SenderName AS CourierName, SUM(p.Amount) AS TotalPayments  
831     FROM Payments p  
832     RIGHT JOIN Couriers c ON p.CourierID = c.CourierID  
833     GROUP BY c.CourierID, c.SenderName;  
834
```

Result Grid			
	CourierID	CourierName	TotalPayments
▶	1	John Doe	50.00
	2	Mike Smith	100.00
	3	Bob Williams	150.00
	4	David Miller	200.00
	5	Daniel Lopez	250.00
	6	Jane Doe	300.00
	7	Alice Johnson	350.00
	8	Sarah Brown	400.00
	9	Susan Garcia	450.00
	10	Maria Hernandez	500.00

28. List payments made on a specific date

```
835 •   SELECT *  
836     FROM Payments  
837     WHERE PaymentDate = '2023-10-26';  
838  
839
```

Result Grid					
	PaymentID	CourierID	LocationID	Amount	PaymentDate
▶	1	1	1	50.00	2023-10-26
*	HULL	HULL	HULL	HULL	HULL

29. Get Courier Information for Each Payment

```
839 •   SELECT c.*  
840     FROM Payments p  
841     INNER JOIN Couriers c ON p.CourierID = c.CourierID;  
842  
843
```

Result Grid									
	CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate
▶	1	John Doe	123 Main Street	Jane Doe	456 Park Avenue	1.50	Pending	ABC123	2023-10-27
	2	Mike Smith	789 Elm Street	Alice Johnson	000 Oak Lane	2.30	Pickup	DEF456	2023-10-28
	3	Bob Williams	111 Maple Street	Sarah Brown	222 Birch Drive	3.10	In Transit	GHI789	2023-10-29
	4	David Miller	333 Pine Avenue	Susan Garcia	444 Elmwood Court	4.20	Delivered	JKL012	2023-10-26
	5	Daniel Lopez	555 Sunset Boulevard	Maria Hernandez	666 Ocean Drive	5.40	Pending	MNO345	2023-10-30
	6	Jane Doe	456 Park Avenue	John Doe	123 Main Street	0.80	Delivered	PQR678	2023-10-25
	7	Alice Johnson	000 Oak Lane	Mike Smith	789 Elm Street	1.70	Pickup	STU901	2023-10-31
	8	Sarah Brown	222 Birch Drive	Bob Williams	111 Maple Street	2.50	Pending	VWX234	2023-11-01
	9	Susan Garcia	444 Elmwood Court	David Miller	333 Pine Avenue	3.30	Delivered	YZ1234	2023-10-24
	10	Maria Hernandez	666 Ocean Drive	Daniel Lopez	555 Sunset Boulevard	4.10	In Transit	ABC5678	2023-11-02

30. Get Payment Details with Location

```

843 •   SELECT p.*, l.*
844     FROM Payments p
845     INNER JOIN Locations l ON p.LocationID = l.LocationID;
846
847

```

Result Grid | Filter Rows: Export: Wrap Cell Content:

	PaymentID	CourierID	LocationID	Amount	PaymentDate	LocationID	LocationName	Address
▶	1	1	1	50.00	2023-10-26	1	Main Branch	123 Main Street, New York, NY 10001
	2	2	2	100.00	2023-10-27	2	West Branch	456 Park Avenue, Los Angeles, CA 90001
	3	3	3	150.00	2023-10-28	3	North Branch	789 Elm Street, Chicago, IL 60601
	4	4	1	200.00	2023-10-29	1	Main Branch	123 Main Street, New York, NY 10001
	5	5	2	250.00	2023-10-30	2	West Branch	456 Park Avenue, Los Angeles, CA 90001
	6	6	3	300.00	2023-10-31	3	North Branch	789 Elm Street, Chicago, IL 60601
	7	7	1	350.00	2023-11-01	1	Main Branch	123 Main Street, New York, NY 10001
	8	8	2	400.00	2023-11-02	2	West Branch	456 Park Avenue, Los Angeles, CA 90001
	9	9	3	450.00	2023-11-03	3	North Branch	789 Elm Street, Chicago, IL 60601
	10	10	1	500.00	2023-11-04	1	Main Branch	123 Main Street, New York, NY 10001

31. Calculating Total Payments for Each Courier

```

847 •   SELECT c.CourierID, c.SenderName, SUM(p.Amount) AS TotalPayments
848     FROM Payments p
849     RIGHT JOIN Couriers c ON p.CourierID = c.CourierID
850     GROUP BY c.CourierID, c.SenderName;
851

```

Result Grid | Filter Rows: Export: Wrap Cell Content:

	CourierID	SenderName	TotalPayments
▶	1	John Doe	50.00
	2	Mike Smith	100.00
	3	Bob Williams	150.00
	4	David Miller	200.00
	5	Daniel Lopez	250.00
	6	Jane Doe	300.00
	7	Alice Johnson	350.00
	8	Sarah Brown	400.00
	9	Susan Garcia	450.00
	10	Maria Hernandez	500.00

32. List Payments Within a Date Range

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```
852 •   SELECT *
853     FROM Payments
854     WHERE PaymentDate BETWEEN '2023-10-25' AND '2023-10-30';
855
856
```

Result Grid					
	PaymentID	CourierID	LocationID	Amount	PaymentDate
▶	1	1	1	50.00	2023-10-26
	2	2	2	100.00	2023-10-27
	3	3	3	150.00	2023-10-28
	4	4	1	200.00	2023-10-29
	5	5	2	250.00	2023-10-30
*	NULL	NULL	NULL	NULL	NULL

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

```
856 •   SELECT u.*, c.*
857     FROM Customers u
858     LEFT JOIN Orders o ON u.UserID = o.UserID
859     LEFT JOIN Couriers c ON o.CourierID = c.CourierID;
860
```

Result Grid											
	UserID	Name	Email	Password	ContactNumber	Address	CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress
▶	1	John Doe	john.doe@email.com	password123	123-456-7890	123 Main Street	1	John Doe	123 Main Street	Jane Doe	456 Park Avenue
	2	Jane Doe	jane.doe@email.com	password456	987-654-3210	456 Park Avenue	2	Mike Smith	789 Elm Street	Alice Johnson	000 Oak Lane
	3	Mike Smith	mike.smith@email.com	password789	555-555-5555	789 Elm Street	3	Bob Williams	111 Maple Street	Sarah Brown	222 Birch Drive
	4	Alice Johnson	alice.johnson@email.com	password000	000-000-0000	000 Oak Lane	1	John Doe	123 Main Street	Jane Doe	456 Park Avenue
	5	Bob Williams	bob.williams@email.com	password111	111-111-1111	111 Maple Street	2	Mike Smith	789 Elm Street	Alice Johnson	000 Oak Lane
	6	Sarah Brown	sarah.brown@email.com	password222	222-222-2222	222 Birch Drive	3	Bob Williams	111 Maple Street	Sarah Brown	222 Birch Drive
	7	David Miller	david.miller@email.com	password333	333-333-3333	333 Pine Avenue	1	John Doe	123 Main Street	Jane Doe	456 Park Avenue
	8	Susan Garcia	susan.garcia@email.com	password444	444-444-4444	444 Elmwood Court	2	Mike Smith	789 Elm Street	Alice Johnson	000 Oak Lane
	9	Daniel Lopez	daniel.lopez@email.com	password555	555-555-5555	555 Sunset Boulevard	3	Bob Williams	111 Maple Street	Sarah Brown	222 Birch Drive
	10	Maria Hernandez	maria.hernandez@email.com	password666	666-666-6666	666 Ocean Drive	1	John Doe	123 Main Street	Jane Doe	456 Park Avenue

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

```
862 •   SELECT c.*, s.*
863     FROM Couriers c
864     LEFT JOIN Orders o ON c.CourierID = o.CourierID
865     LEFT JOIN CourierServices s ON o.ServiceID = s.ServiceID;
```

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

```
867 •   SELECT e.*, p.*
868     FROM Employees e
869     LEFT JOIN Payments p ON e.EmployeeID = p.EmployeeID;
```

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

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```
871 •  SELECT u.*, s.*
872    FROM Customers u
873    CROSS JOIN CourierServices s;
874
```

	UserID	Name	Email	Password	ContactNumber	Address	ServiceID	ServiceName	Cost
▶	10	Maria Hernandez	maria.hernandez@email.com	password666	666-666-6666	666 Ocean Drive	1	Standard	5.00
	9	Daniel Lopez	daniel.lopez@email.com	password555	555-555-5555	555 Sunset Boulevard	1	Standard	5.00
	8	Susan Garcia	susan.garcia@email.com	password444	444-444-4444	444 Elmwood Court	1	Standard	5.00
	7	David Miller	david.miller@email.com	password333	333-333-3333	333 Pine Avenue	1	Standard	5.00
	6	Sarah Brown	sarah.brown@email.com	password222	222-222-2222	222 Birch Drive	1	Standard	5.00
	5	Bob Williams	bob.williams@email.com	password111	111-111-1111	111 Maple Street	1	Standard	5.00
	4	Alice Johnson	alice.johnson@email.com	password000	000-000-0000	000 Oak Lane	1	Standard	5.00
	3	Mike Smith	mike.smith@email.com	password789	555-555-5555	789 Elm Street	1	Standard	5.00
	2	Jane Doe	jane.doe@email.com	password456	987-654-3210	456 Park Avenue	1	Standard	5.00
	1	John Doe	john.doe@email.com	password123	123-456-7890	123 Main Street	1	Standard	5.00
	10	Maria Hernandez	maria.hernandez@email.com	password666	666-666-6666	666 Ocean Drive	2	Express	10.00
	9	Daniel Lopez	daniel.lopez@email.com	password555	555-555-5555	555 Sunset Boulevard	2	Express	10.00
	8	Susan Garcia	susan.garcia@email.com	password444	444-444-4444	444 Elmwood Court	2	Express	10.00
	7	David Miller	david.miller@email.com	password333	333-333-3333	333 Pine Avenue	2	Express	10.00
	6	Sarah Brown	sarah.brown@email.com	password222	222-222-2222	222 Birch Drive	2	Express	10.00

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

```
875 •  SELECT e.*, l.*
876    FROM Employees e
877    CROSS JOIN Locations l;
878
879
```

	EmployeeID	Name	Email	ContactNumber	Role	Salary	LocationID	LocationName	Address
▶	10	Maria Jones	maria.jones@email.com	666-666-6666	Cleaning Staff	25000.00	1	Main Branch	123 Main Street, New York, NY 10001
	9	Daniel Brown	daniel.brown@email.com	555-555-5555	Driver	32000.00	1	Main Branch	123 Main Street, New York, NY 10001
	8	Susan Williams	susan.williams@email.com	444-444-4444	Warehouse Manager	40000.00	1	Main Branch	123 Main Street, New York, NY 10001
	7	David Hernandez	david.hernandez@email.com	333-333-3333	HR Manager	48000.00	1	Main Branch	123 Main Street, New York, NY 10001
	6	Sarah Lopez	sarah.lopez@email.com	222-222-2222	Accountant	42000.00	1	Main Branch	123 Main Street, New York, NY 10001
	5	Bob Miller	bob.miller@email.com	111-111-1111	IT Administrator	55000.00	1	Main Branch	123 Main Street, New York, NY 10001
	4	Alice Garcia	alice.garcia@email.com	000-000-0000	Marketing Manager	45000.00	1	Main Branch	123 Main Street, New York, NY 10001
	3	Mike Johnson	mike.johnson@email.com	555-555-5555	Customer Support Representative	40000.00	1	Main Branch	123 Main Street, New York, NY 10001
	2	Jane Doe	jane.doe@email.com	987-654-3210	Delivery Specialist	35000.00	1	Main Branch	123 Main Street, New York, NY 10001
	1	John Smith	john.smith@email.com	123-456-7890	Manager	50000.00	1	Main Branch	123 Main Street, New York, NY 10001
	10	Maria Jones	maria.jones@email.com	666-666-6666	Cleaning Staff	25000.00	2	West Branch	456 Park Avenue, Los Angeles, CA 90001
	9	Daniel Brown	daniel.brown@email.com	555-555-5555	Driver	32000.00	2	West Branch	456 Park Avenue, Los Angeles, CA 90001
	8	Susan Williams	susan.williams@email.com	444-444-4444	Warehouse Manager	40000.00	2	West Branch	456 Park Avenue, Los Angeles, CA 90001
	7	David Hernandez	david.hernandez@email.com	333-333-3333	HR Manager	48000.00	2	West Branch	456 Park Avenue, Los Angeles, CA 90001

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

```
879 •  SELECT c.*, c.SenderName, c.SenderAddress
880    FROM Couriers c
881    INNER JOIN Orders o ON c.CourierID = o.CourierID;
882
883
```

	CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate	SenderId	SenderName	SenderAddress
▶	1	John Doe	123 Main Street	Jane Doe	456 Park Avenue	1.50	Pending	ABC123	2023-10-27	John Doe	123 Main Street	
	1	John Doe	123 Main Street	Jane Doe	456 Park Avenue	1.50	Pending	ABC123	2023-10-27	John Doe	123 Main Street	
	1	John Doe	123 Main Street	Jane Doe	456 Park Avenue	1.50	Pending	ABC123	2023-10-27	John Doe	123 Main Street	
	1	John Doe	123 Main Street	Jane Doe	456 Park Avenue	1.50	Pending	ABC123	2023-10-27	John Doe	123 Main Street	
	2	Mike Smith	789 Elm Street	Alice Johnson	000 Oak Lane	2.30	Pickup	DEF456	2023-10-28	Mike Smith	789 Elm Street	
	2	Mike Smith	789 Elm Street	Alice Johnson	000 Oak Lane	2.30	Pickup	DEF456	2023-10-28	Mike Smith	789 Elm Street	
	2	Mike Smith	789 Elm Street	Alice Johnson	000 Oak Lane	2.30	Pickup	DEF456	2023-10-28	Mike Smith	789 Elm Street	
	3	Bob Williams	111 Maple Street	Sarah Brown	222 Birch Drive	3.10	In Transit	GHI789	2023-10-29	Bob Williams	111 Maple Street	
	3	Bob Williams	111 Maple Street	Sarah Brown	222 Birch Drive	3.10	In Transit	GHI789	2023-10-29	Bob Williams	111 Maple Street	
	3	Bob Williams	111 Maple Street	Sarah Brown	222 Birch Drive	3.10	In Transit	GHI789	2023-10-29	Bob Williams	111 Maple Street	

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

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```
884 •  SELECT c.*, c.ReceiverName, c.ReceiverAddress  
885      FROM Couriers c  
886      INNER JOIN Orders o ON c.CourierID = o.CourierID;  
887  
888
```

Result Grid Filter Rows: <input type="text"/> Export: Wrap Cell Content: <input type="checkbox"/>											
CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate	ReceiverName	ReceiverAddress	
1	John Doe	123 Main Street	Jane Doe	456 Park Avenue	1.50	Pending	ABC123	2023-10-27	Jane Doe	456 Park Avenue	
1	John Doe	123 Main Street	Jane Doe	456 Park Avenue	1.50	Pending	ABC123	2023-10-27	Jane Doe	456 Park Avenue	
1	John Doe	123 Main Street	Jane Doe	456 Park Avenue	1.50	Pending	ABC123	2023-10-27	Jane Doe	456 Park Avenue	
1	John Doe	123 Main Street	Jane Doe	456 Park Avenue	1.50	Pending	ABC123	2023-10-27	Jane Doe	456 Park Avenue	
2	Mike Smith	789 Elm Street	Alice Johnson	000 Oak Lane	2.30	Pickup	DEF456	2023-10-28	Alice Johnson	000 Oak Lane	
2	Mike Smith	789 Elm Street	Alice Johnson	000 Oak Lane	2.30	Pickup	DEF456	2023-10-28	Alice Johnson	000 Oak Lane	
2	Mike Smith	789 Elm Street	Alice Johnson	000 Oak Lane	2.30	Pickup	DEF456	2023-10-28	Alice Johnson	000 Oak Lane	
3	Bob Williams	111 Maple Street	Sarah Brown	222 Birch Drive	3.10	In Transit	GHI789	2023-10-29	Sarah Brown	222 Birch Drive	
3	Bob Williams	111 Maple Street	Sarah Brown	222 Birch Drive	3.10	In Transit	GHI789	2023-10-29	Sarah Brown	222 Birch Drive	
3	Bob Williams	111 Maple Street	Sarah Brown	222 Birch Drive	3.10	In Transit	GHI789	2023-10-29	Sarah Brown	222 Birch Drive	

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

```
888 •  SELECT c.*, s.*  
889      FROM Couriers c  
890      INNER JOIN Orders o ON c.CourierID = o.CourierID  
891      INNER JOIN CourierServices s ON o.ServiceID = s.ServiceID;  
892
```

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

```
893 •  SELECT e.EmployeeID, e.Name, COUNT(*) AS AssignedCouriers  
894      FROM Employees e  
895      INNER JOIN Orders o ON e.EmployeeID = o.EmployeeID  
896      GROUP BY e.EmployeeID, e.Name;
```

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

```
898 •  SELECT l.LocationID, l.LocationName, SUM(p.Amount) AS TotalPayment  
899      FROM Locations l  
900      INNER JOIN Payments p ON l.LocationID = p.LocationID  
901      GROUP BY l.LocationID, l.LocationName;  
902  
903
```

Result Grid Filter Rows: <input type="text"/> Export: Wrap Cell Content: <input type="checkbox"/>		
LocationID	LocationName	TotalPayment
1	Main Branch	1100.00
2	West Branch	750.00
3	North Branch	900.00

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

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```
903 •  SELECT c.*  
904      FROM Couriers c  
905      INNER JOIN Orders o ON c.CourierID = o.CourierID  
906      WHERE c.SenderName = 'John Doe';  
q07
```

Result Grid									
	CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate
▶	1	John Doe	123 Main Street	Jane Doe	456 Park Avenue	1.50	Pending	ABC123	2023-10-27
	1	John Doe	123 Main Street	Jane Doe	456 Park Avenue	1.50	Pending	ABC123	2023-10-27
	1	John Doe	123 Main Street	Jane Doe	456 Park Avenue	1.50	Pending	ABC123	2023-10-27
	1	John Doe	123 Main Street	Jane Doe	456 Park Avenue	1.50	Pending	ABC123	2023-10-27

44. List all employees who share the same role.

```
908 •  SELECT *  
909      FROM Employees  
910      WHERE Role = 'Manager';  
911  
q12
```

Result Grid						
	EmployeeID	Name	Email	ContactNumber	Role	Salary
▶	1	John Smith	john.smith@email.com	123-456-7890	Manager	50000.00
*	NULL	NULL	NULL	NULL	NULL	NULL

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

```
912 •  SELECT p.*, c.*  
913      FROM Payments p  
914      INNER JOIN Couriers c ON p.CourierID = c.CourierID  
915      INNER JOIN Orders o ON c.CourierID = o.CourierID  
916      WHERE o.SenderLocationID = 1;
```

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

```
918 •  SELECT c.*  
919      FROM Couriers c  
920      INNER JOIN Orders o ON c.CourierID = o.CourierID  
921      WHERE c.SenderAddress = '123 Main Street';  
q22
```

Result Grid									
	CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate
▶	1	John Doe	123 Main Street	Jane Doe	456 Park Avenue	1.50	Pending	ABC123	2023-10-27
	1	John Doe	123 Main Street	Jane Doe	456 Park Avenue	1.50	Pending	ABC123	2023-10-27
	1	John Doe	123 Main Street	Jane Doe	456 Park Avenue	1.50	Pending	ABC123	2023-10-27
	1	John Doe	123 Main Street	Jane Doe	456 Park Avenue	1.50	Pending	ABC123	2023-10-27

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

```

923 •   SELECT e.EmployeeID, e.Name, COUNT(*) AS DeliveredCouriers
924     FROM Employees e
925     INNER JOIN Orders o ON e.EmployeeID = o.EmployeeID
926     INNER JOIN Payments p ON o.OrderID = p.OrderID
927     GROUP BY e.EmployeeID, e.Name;

```

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

```

929 •   SELECT c.*, o.ServiceID, s.Cost, p.Amount
930     FROM Couriers c
931     INNER JOIN Orders o ON c.CourierID = o.CourierID
932     INNER JOIN CourierServices s ON o.ServiceID = s.ServiceID
933     INNER JOIN Payments p ON o.OrderID = p.OrderID
934     WHERE p.Amount > s.Cost;

```

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

```

936 •   SELECT *
937     FROM Couriers c
938     WHERE c.Weight > (
939         SELECT AVG(Weight)
940         FROM Couriers
941     );
942
943

```

CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate
3	Bob Williams	111 Maple Street	Sarah Brown	222 Birch Drive	3.10	In Transit	GHI789	2023-10-29
4	David Miller	333 Pine Avenue	Susan Garcia	444 Elmwood Court	4.20	Delivered	JKL012	2023-10-26
5	Daniel Lopez	555 Sunset Boulevard	Maria Hernandez	666 Ocean Drive	5.40	Pending	MNO345	2023-10-30
9	Susan Garcia	555 Sunset Boulevard	David Miller	333 Pine Avenue	3.30	Delivered	YZ1234	2023-10-24
10	Maria Hernandez	666 Ocean Drive	Daniel Lopez	555 Sunset Boulevard	4.10	In Transit	ABC5678	2023-11-02
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

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

```

943 •   SELECT Name
944     FROM Employees
945     WHERE Salary > (
946         SELECT AVG(Salary)
947         FROM Employees
948     );
949
950

```

Name
John Smith
Alice Garcia
Bob Miller
Sarah Lopez
David Hernandez

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

```
950 •   SELECT SUM(Cost) AS TotalCost  
951     FROM CourierServices  
952     WHERE Cost < (  
953         SELECT MAX(Cost)  
954         FROM CourierServices  
955     );  
956  
957
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
TotalCost	225.00			

52. Find all couriers that have been paid for

```
957 •   SELECT c.*  
958     FROM Couriers c  
959     INNER JOIN Orders o ON c.CourierID = o.CourierID  
960     INNER JOIN Payments p ON o.OrderID = p.OrderID;
```

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

```
962 •   SELECT LocationName, MAX(Amount) AS MaxPayment  
963     FROM Locations l  
964     INNER JOIN Payments p ON l.LocationID = p.LocationID  
965     GROUP BY LocationName;  
966  
967
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
LocationName	MaxPayment			
Main Branch	500.00			
West Branch	400.00			
North Branch	450.00			

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

```
967 •  SELECT c.*  
968      FROM Couriers c  
969      INNER JOIN Orders o ON c.CourierID = o.CourierID  
970      WHERE c.Weight > (  
971          SELECT AVG(c.Weight)  
972          FROM Couriers c  
973          INNER JOIN Orders o ON c.CourierID = o.CourierID  
974          WHERE c.SenderName = 'SenderName'  
975      );  
---
```