ASSIGNMENT

COURIER MANAGEMENT SYSTEM

List All Customer

Ans: Select * from user;

```
select * from user;
```

Result Grid

UserID	Name	Email	Password	ContactNumber	Address
1	Karthik	karthik@example.com	password123	1234567890	123 Main St, Bigcity, India
2	Anushya	anushya@example.com	password456	9876543210	456 Elm St, Smalltown, India
3	Krishna	krishna@example.com	password789	5555555555	789 Oak St, Midtown, India
4	Rajesh	rajesh@example.com	passwordabc	1112223333	321 Pine St, Downtown, India
5	Vijay	vijay@example.com	passworddef	4445556666	654 Birch St, Uptown, India
6	Suresh	suresh@example.com	passwordghi	7778889999	987 Maple St, Citycenter, India

List all orders for a specific customer

Ans: select * from courier where sendername="karthik";

```
select * from courier where sendername="karthik";
```

Result Grid

CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate
1	Karthik	123 Main St, Bigcity, India	Anushya	456 Elm St, Smalltown, India	2.50	In Transit	ABC123	2024-04-10
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

courier 15

List all courier

Ans: Slect * from courier;

```
select * from courier;
```

Result Grid

CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate
1	Karthik	123 Main St, Bigcity, India	Anushya	456 Elm St, Smalltown, India	2.50	In Transit	ABC123	2024-04-10
2	Krishna	789 Oak St, Midtown, India	Rajesh	321 Pine St, Downtown, India	3.20	Delivered	DEF456	2024-04-11
3	Vijay	654 Birch St, Uptown, India	Suresh	987 Maple St, Citycenter, India	4.00	In Transit	GHI789	2024-04-12
4	Priya	741 Cedar St, Malltown, India	Deepika	369 Oak St, Fixtown, India	2.80	Pending	JKL012	NULL
5	Arun	852 Walnut St, Downtown, India	Sanjay	159 Pine St, Shiptown, India	3.50	Delivered	MNO345	2024-04-13
6	Raj	963 Elm St, Uptown, India	Vivek	753 Cedar St, Downtown, India	2.30	In Transit	PQR678	NULL

List all packages for a specific order

Ans: SELECT * FROM Courier WHERE TrackingNumber = 'ABC123';

```
SELECT * FROM Courier WHERE TrackingNumber = 'ABC123';
```

Result Grid

CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate
1	Karthik	123 Main St, Bigcity, India	Anushya	456 Elm St, Smalltown, India	2.50	In Transit	ABC123	2024-04-10

List all deliveries for a specific courier

Ans: SELECT * FROM Courier WHERE CourierID = '1';

```
select * from courier;
SELECT * FROM Courier WHERE CourierID = '5';
```

CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate
5	Arun	852 Walnut St, Downtown, India	Sanjay	159 Pine St, Shiptown, India	3.50	Delivered	MNO345	2024-04-13

List all undelivered packages

Ans: SELECT * FROM Courier WHERE Status != 'Delivered';

```
SELECT * FROM Courier WHERE Status != 'Delivered';
```

CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate
4	Priya	741 Cedar St, Malltown, India	Deepika	369 Oak St, Fixtown, India	2.80	Pending	JKL012	NULL
6	Raj	963 Elm St, Uptown, India	Vivek	753 Cedar St, Downtown, India	2.30	In Transit	PQR678	NULL
7	Anita	357 Oak St, Shiptown, India	Kumar	258 Walnut St, Fixtown, India	3.10	Pending	STU901	NULL
8	Ganesh	456 Pine St, Malltown, India	Rani	123 Elm St, Shiptown, India	4.20	In Transit	VWX234	NULL

List all packages for that are scheduled for today

Ans: SELECT * FROM Courier WHERE DeliveryDate = CURDATE();

```
SELECT * FROM Courier WHERE DeliveryDate = CURDATE();
```

CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate
5	Arun	852 Walnut St, Downtown, India	Sanjay	159 Pine St, Shiptown, India	3.50	Delivered	MNO345	2024-04-13
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

List all packages with a specific status:

Ans: SELECT * FROM Courier WHERE Status ='delivered';

```
SELECT * FROM Courier WHERE Status = 'Delivered';
```

CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate
1	Karthik	123 Main St, Bigcity, India	Anushya	456 Elm St, Smalltown, India	2.50	Delivered	ABC123	2024-04-10
2	Krishna	789 Oak St, Midtown, India	Rajesh	321 Pine St, Downtown, India	3.20	Delivered	DEF456	2024-04-11
3	Vijay	654 Birch St, Uptown, India	Suresh	987 Maple St, Citycenter, India	4.00	Delivered	GHI789	2024-04-12
5	Arun	852 Walnut St, Downtown, India	Sanjay	159 Pine St, Shiptown, India	3.50	Delivered	MNO345	2024-04-13
9	Arjun	654 Cedar St, Downtown, India	Latha	789 Birch St, Shiptown, India	2.90	Delivered	YZA567	2024-04-12
10	Saravanan	147 Walnut St, Shiptown, India	Renuka	369 Pine St, Malltown, India	3.80	Delivered	BCD890	2024-04-12
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Calculate the total number of packages for each courier.

Ans: SELECT CourierID, COUNT(*) AS TotalPackages FROM Courier GROUP BY CourierID;

```
SELECT CourierID, COUNT(*) AS TotalPackages FROM Courier GROUP BY CourierID;
```

Result Grid

CourierID	TotalPackages
1	1
2	1
3	1
4	1
5	1
6	1

List all packages with a specific weight range:

Ans: Select * from courier where weight between 2 and 3;

```
SELECT * FROM Courier WHERE Weight BETWEEN 2 AND 3;
```

Result Grid

CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate
1	Karthik	123 Main St, Bigcity, India	Anushya	456 Elm St, Smalltown, India	2.50	Delivered	ABC123	2024-04-10
4	Priya	741 Cedar St, Malltown, India	Deepika	369 Oak St, Fixtown, India	2.80	Pending	JKL012	NULL
6	Raj	963 Elm St, Uptown, India	Vivek	753 Cedar St, Downtown, India	2.30	In Transit	PQR678	NULL
9	Arjun	654 Cedar St, Downtown, India	Latha	789 Birch St, Shiptown, India	2.90	Delivered	YZA567	2024-04-12
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Courier 34

Retrieve employees whose names contain 'John'

ans: SELECT * FROM Employee WHERE Name LIKE '%John%';

```
SELECT * FROM Employee WHERE Name LIKE '%John%';
```

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

EmployeeID	Name	Email	ContactNumber	Role	Salary
NULL	NULL	NULL	NULL	NULL	NULL

Employee 36

Find the average delivery time for each courier

Ans: SELECT c.CourierID, c.SenderName, AVG(DATEDIFF(c.DeliveryDate, p.PaymentDate)) AS AvgDeliveryTime FROM Courier c JOIN Payment p ON c.CourierID = p.CourierID GROUP BY c.CourierID, c.SenderName;

```
SELECT c.CourierID, c.SenderName, AVG(DATEDIFF(c.DeliveryDate, p.PaymentDate)) AS AvgDeliveryTime
FROM Courier c
JOIN Payment p ON c.CourierID = p.CourierID
GROUP BY c.CourierID, c.SenderName;
```

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

CourierID	SenderName	AvgDeliveryTime
1	Karthik	16.0000
2	Krishna	13.0000
3	Vijay	21.0000
4	Priya	NULL

Retrieve all courier records with payments greater than $50

ans: SELECT * FROM Courier WHERE CourierID IN (SELECT CourierID FROM Payment WHERE Amount > 50);

```
SELECT * FROM Courier WHERE CourierID IN (SELECT CourierID FROM Payment WHERE Amount > 50);
```

CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate
5	Arun	852 Walnut St, Downtown, India	Sanjay	159 Pine St, Shiptown, India	3.50	Delivered	MNO345	2024-04-13
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Task –II

Calculate the total revenue generated by each location

Ans: select location.locationid, locationname, sum(amount) from location join payment on location.locationid = payment.locationid group by locationid, locationname;

```
cation join payment on location.locationid = payment.locationid group by locationid, locationname;
```

locationid	locationname	sum(amount)
1	Main Office	10.00
2	Warehouse	20.00
3	Branch Office	15.00
4	Distribution Center	18.00
5	Regional Office	56.00
6	Headquarters	22.00

Find the total number of couriers delivered to each location.

Ans: select receiveraddress, count(receiveraddress) as count from courier group by receiveraddress;

```
select receiveraddress, count(receiveraddress) as count from courier group by receiveraddress;
```

receiveraddress	count
456 Elm St, Smalltown, India	1
321 Pine St, Downtown, India	1
987 Maple St, Citycenter, India	1
369 Oak St, Fixtown, India	1
159 Pine St, Shiptown, India	1
753 Cedar St, Downtown, India	1

Find the courier with the highest average delivery time

Ans: SELECT c.CourierID, c.SenderName, (DATEDIFF(c.DeliveryDate, p.PaymentDate)) AS AvgDeliveryTime FROM Courier c JOIN Payment p ON c.CourierID = p.CourierID order by AvgDeliveryTime desc limit 1;

```
use courier_management_system;
SELECT c.CourierID, c.SenderName, (DATEDIFF(c.DeliveryDate, p.PaymentDate)) AS AvgDeliveryTime FROM Courier c JOIN Payment p ON c.CourierID = p.CourierID order by AvgDeliveryTime desc limit 1;
```

CourierID	SenderName	AvgDeliveryTime
9	Arjun	24

Find Locations with Total Payments Less Than a Certain Amount

Ans: select LocationId, sum(Amount) from paymentgroup by locationId having sum(Amount)<200;

```
use courier_management_system;
select LocationId, sum(Amount) from payment group by locationId having sum(Amount)<200;
```

LocationId	sum(Amount)
1	10.00
2	20.00
3	15.00
4	18.00
5	56.00
6	22.00

Calculate Total Payments per Location

Ans: select LocationId,sum(amount) as total_amount from payment group by LocationId;

```
select LocationId,sum(amount) as total_amount from payment group by LocationId;
```

LocationId	total_amount
1	10.00
2	20.00
3	15.00
4	18.00
5	56.00
6	22.00

Retrieve couriers who have received payments totaling more than $1000 in a specific location

Ans: select courierid from payment where locationId=9 group by courierId having sum(amount)>200;

```
select courierid from payment where locationId=9 group by courierId having sum(amount)>200;
```

courierid

Retrieve couriers who have received payments totaling more than $1000 after a certain date

(PaymentDate > 'YYYY-MM-DD'):

Ans: SELECT c.SenderName, Sum(p.Amount) AS TotalPayments FROM Courier c

JOIN Payment p ON c.CourierID-p.CourierID

WHERE p. PaymentDate> 2024-04-01

GROUP BY c.SenderName

HAVING TotalPayments> 10;

```
SELECT c.SenderName, Sum(p.Amount) AS TotalPayments FROM Courier c
JOIN Payment p ON c.CourierID-p.CourierID
WHERE p. PaymentDate> 2024-04-01
GROUP BY c.SenderName
HAVING TotalPayments> 10;
```

SenderName	TotalPayments
Karthik	197.00
Krishna	187.00
Vijay	192.00
Priya	189.00
Arun	151.00
Raj	185.00

Retrieve Payments with Courier Information

Ans: select * from payment natural join courier;

```
select * from payment natural join courier;
```

CourierID	PaymentID	LocationID	Amount	PaymentDate	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate
1	1	1	10.00	2024-03-25	Karthik	123 Main St, Bigcity, India	Anushya	456 Elm St, Smalltown, India	2.50	Delivered	ABC123	2024-04-10
2	2	2	20.00	2024-03-29	Krishna	789 Oak St, Midtown, India	Rajesh	321 Pine St, Downtown, India	3.20	Delivered	DEF456	2024-04-11
3	3	3	15.00	2024-03-22	Vijay	654 Birch St, Uptown, India	Suresh	987 Maple St, Citycenter, India	4.00	Delivered	GHI789	2024-04-12
4	4	4	18.00	2024-04-02	Priya	741 Cedar St, Malltown, India	Deepika	369 Oak St, Fixtown, India	2.80	Pending	JKL012	NULL
5	5	5	56.00	2024-04-14	Arun	852 Walnut St, Downtown, India	Sanjay	159 Pine St, Shiptown, India	3.50	Delivered	MNO345	2024-04-13
6	6	6	22.00	2024-04-06	Raj	963 Elm St, Uptown, India	Vivek	753 Cedar St, Downtown, India	2.30	In Transit	PQR678	NULL

Retrieve Payments with Location Information

select * from payment natural join location;

```
select * from payment natural join location;
```

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

LocationID	PaymentID	CourierID	Amount	PaymentDate	LocationName	Address
1	1	1	10.00	2024-03-25	Main Office	123 Business St, Bigcity, India
2	2	2	20.00	2024-03-29	Warehouse	456 Storage St, Smalltown, India
3	3	3	15.00	2024-03-22	Branch Office	789 Commerce St, Midtown, India
4	4	4	18.00	2024-04-02	Distribution Center	159 Logistics St, Downtown, India
5	5	5	56.00	2024-04-14	Regional Office	357 Corporate St, Uptown, India
6	6	6	22.00	2024-04-06	Headquarters	963 Center St, Citycenter, India

Retrieve Payments with Courier and Location Information

```
select p.paymentid,p.amount,p.paymentdate,c.courierid,c.status,l.locationid,l.locationname
from payment p
join courier c on c.courierid = p.courierid
join location l on l.locationid = p.locationid;
```

```
select p.paymentid,p.amount,p.paymentdate,c.courierid,c.status,l.locationid,l.locationname
from payment p
join courier c on c.courierid = p.courierid
join location l on l.locationid = p.locationid;
```

paymentid	amount	paymentdate	courierid	status	locationid	locationname
1	10.00	2024-03-25	1	Delivered	1	Main Office
2	20.00	2024-03-29	2	Delivered	2	Warehouse
3	15.00	2024-03-22	3	Delivered	3	Branch Office
4	18.00	2024-04-02	4	Pending	4	Distribution Center
5	56.00	2024-04-14	5	Delivered	5	Regional Office
6	22.00	2024-04-06	6	In Transit	6	Headquarters

List all payments with courier details

select * from payment natural join courier;

```
select * from payment natural join courier;
```

CourierID	PaymentID	LocationID	Amount	PaymentDate	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate
1	1	1	10.00	2024-03-25	Karthik	123 Main St, Bigcity, India	Anushya	456 Elm St, Smalltown, India	2.50	Delivered	ABC123	2024-04-10
2	2	2	20.00	2024-03-29	Krishna	789 Oak St, Midtown, India	Rajesh	321 Pine St, Downtown, India	3.20	Delivered	DEF456	2024-04-11
3	3	3	15.00	2024-03-22	Vijay	654 Birch St, Uptown, India	Suresh	987 Maple St, Citycenter, India	4.00	Delivered	GHI789	2024-04-12
4	4	4	18.00	2024-04-02	Priya	741 Cedar St, Malltown, India	Deepika	369 Oak St, Fixtown, India	2.80	Pending	JKL012	NULL
5	5	5	56.00	2024-04-14	Arun	852 Walnut St, Downtown, India	Sanjay	159 Pine St, Shiptown, India	3.50	Delivered	MNO345	2024-04-13
6	6	6	22.00	2024-04-06	Raj	963 Elm St, Uptown, India	Vivek	753 Cedar St, Downtown, India	2.30	In Transit	PQR678	NULL

Total payments received for each courier

select courierId,sum(amount) from payment group by courierId;

```
select courierId,sum(amount) from payment group by courierId;
```

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

courierId	sum(amount)
1	10.00
2	20.00
3	15.00
4	18.00
5	56.00
6	22.00

Result 5

List payments made on a specific date:

select * from payment where paymentdate = '2024-04-04';

Limit to 1000 rows

```
select * from payment where paymentdate = '2024-04-14';
```

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

PaymentID	CourierID	LocationID	Amount	PaymentDate
5	5	5	56.00	2024-04-14
NULL	NULL	NULL	NULL	NULL

payment 11

Get Courier Information for Each Payment:

select p.paymentid,c.courierid,c.sendername,c.receivername,c.weight,c.status,c.trackingNumber

from payment p

inner join courier c

on p.courierid = c.courierid;

```
select p.paymentid,c.courierid,c.sendername,c.receivername,c.weight,c.status,c.trackingNumber
from payment p
inner join courier c
on p.courierid = c.courierid;
```

paymentid	courierid	sendername	receivername	weight	status	trackingNumber
1	1	Karthik	Anushya	2.50	Delivered	ABC123
2	2	Krishna	Rajesh	3.20	Delivered	DEF456
3	3	Vijay	Suresh	4.00	Delivered	GHI789
4	4	Priya	Deepika	2.80	Pending	JKL012
5	5	Arun	Sanjay	3.50	Delivered	MNO345
6	6	Raj	Vivek	2.30	In Transit	PQR678

Get Payment Details with Location:

select p.paymentid,p.amount,l.locationid,l.locationname,l.address,p.paymentdate

from payment p

inner join location l

on p.locationid = l.locationid;

```
select p.paymentid,p.amount,l.locationid,l.locationname,l.address,p.paymentdate
from payment p
inner join location l
on p.locationid = l.locationid;
```

paymentid	amount	locationid	locationname	address	paymentdate
1	10.00	1	Main Office	123 Business St, Bigcity, India	2024-03-25
2	20.00	2	Warehouse	456 Storage St, Smalltown, India	2024-03-29
3	15.00	3	Branch Office	789 Commerce St, Midtown, India	2024-03-22
4	18.00	4	Distribution Center	159 Logistics St, Downtown, India	2024-04-02
5	56.00	5	Regional Office	357 Corporate St, Uptown, India	2024-04-14
6	22.00	6	Headquarters	963 Center St, Citycenter, India	2024-04-06

Calculating Total Payments for Each Courier:

Select courierId,sum(amount) from payment group by courierId;

```
Select courierId,sum(amount) from payment group by courierId;
```

courierId	sum(amount)
1	10.00
2	20.00
3	15.00
4	18.00
5	56.00
6	22.00

List Payments Within a Date Range:

select * from payment where paymentDate between '2024-04-07' and '2024-04-11';

```
select * from payment where paymentDate between '2024-04-07' and '2024-04-11';
```

PaymentID	CourierID	LocationID	Amount	PaymentDate
10	10	10	16.00	2024-04-08
NULL	NULL	NULL	NULL	NULL

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

select u.*,c.courierId,c.status,c.TrackingNumber,c.DeliveryDate from user u left join courier c on u.name = c.senderName;

Query 1

```
select u.*,c.courierId,c.status,c.TrackingNumber,c.DeliveryDate from user u left join courier c on u.name = c.senderName;
```

Result Grid

UserID	Name	Email	Password	ContactNumber	Address	courierId	status	TrackingNumber	DeliveryDate
1	Karthik	karthik@example.com	password123	1234567890	123 Main St, Bigcity, India	1	Delivered	ABC123	2024-04-10
2	Anushya	anushya@example.com	password456	9876543210	456 Elm St, Smalltown, India	NULL	NULL	NULL	NULL
3	Krishna	krishna@example.com	password789	5555555555	789 Oak St, Midtown, India	2	Delivered	DEF456	2024-04-11
4	Rajesh	rajesh@example.com	passwordabc	1112223333	321 Pine St, Downtown, India	NULL	NULL	NULL	NULL
5	Vijay	vijay@example.com	passwordef	4445556666	654 Birch St, Uptown, India	3	Delivered	GHI789	2024-04-12
6	Suresh	suresh@example.com	passwordghi	7778889999	987 Maple St, Citycenter, India	NULL	NULL	NULL	NULL

Result 16

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

select * from courier c left join courierservice s on c.serviceId = s.serviceId;

Query 1

```
select * from courier c left join courierservices s on c.serviceId = s.serviceId;
```

Result Grid

CourierID	serviceid	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate	ServiceID	ServiceName	Cost
1	1	Karthik	123 Main St, Bigcity, India	Anushya	456 Elm St, Smalltown, India	2.50	Delivered	ABC123	2024-04-10	1	Standard Delivery	10.00
2	2	Krishna	789 Oak St, Midtown, India	Rajesh	321 Pine St, Downtown, India	3.20	Delivered	DEF456	2024-04-11	2	Express Delivery	20.00
3	3	Vijay	654 Birch St, Uptown, India	Suresh	987 Maple St, Citycenter, India	4.00	Delivered	GHI789	2024-04-12	3	Same-day Delivery	30.00
4	4	Priya	741 Cedar St, Malltown, India	Deepika	369 Oak St, Fixtown, India	2.80	Pending	JKL012	NULL	4	Overnight Delivery	15.00
5	5	Arun	852 Walnut St, Downtown, India	Sanjay	159 Pine St, Shiptown, India	3.50	Delivered	MNO345	2024-04-13	5	International Delivery	25.00
6	6	Raj	963 Elm St, Uptown, India	Vivek	753 Cedar St, Downtown, India	2.30	In Transit	PQR678	NULL	6	Special Handling	50.00

Result 19

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

select * from user cross join courierservice;

```
Query 1
Limit to 1000 rows
1   select * from user cross join courierservices;
```

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

UserID	Name	Email	Password	ContactNumber	Address	ServiceID	ServiceName	Cost
10	Sanjay	sanjay@example.com	passwordstu	6667778888	159 Pine St, Shiptown, India	1	Standard Delivery	10.00
9	Arun	arun@example.com	passwordpqr	8889990000	852 Walnut St, Downtown, India	1	Standard Delivery	10.00
8	Deepika	deepika@example.com	passwordmno	2223334444	369 Oak St, Fixtown, India	1	Standard Delivery	10.00
7	Priya	priya@example.com	passwordjkl	9990001111	741 Cedar St, Malltown, India	1	Standard Delivery	10.00
6	Suresh	suresh@example.com	passwordghi	7778889999	987 Maple St, Citycenter, India	1	Standard Delivery	10.00
5	Vijay	vijay@example.com	passwordef	4445556666	654 Birch St, Uptown, India	1	Standard Delivery	10.00

Result 20

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

Select * from employee cross join location

```
Limit to 1000 rows
1   Select * from employee cross join location
```

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

EmployeeID	Name	Email	ContactNumber	Role	Salary	LocationID	LocationName	Address
10	Renuka	accountant@example.com	9990001111	Accounting	45000.00	1	Main Office	123 Business St, Bigcity, India
9	Latha	hr@example.com	3332221111	Human Resources	48000.00	1	Main Office	123 Business St, Bigcity, India
8	Rani	logistics@example.com	6665554444	Logistics	40000.00	1	Main Office	123 Business St, Bigcity, India
7	QA kumar	qc@example.com	5554443333	Quality Control	38000.00	1	Main Office	123 Business St, Bigcity, India
6	Anita	sales@example.com	8887776666	Sales	32000.00	1	Main Office	123 Business St, Bigcity, India
5	vivek	admin@example.com	2221110000	IT	55000.00	1	Main Office	123 Business St, Bigcity, India

Result 21

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

select c.courierId,u.* from courier c inner join user u on c.senderName = u.name;

Query 1

```
select c.courierId,u.* from courier c inner join user u on c.senderName = u.name;
```

Result Grid

courierId	UserID	Name	Email	Password	ContactNumber	Address
1	1	Karthik	karthik@example.com	password123	1234567890	123 Main St, Bigcity, India
2	3	Krishna	krishna@example.com	password789	5555555555	789 Oak St, Midtown, India
3	5	Vijay	vijay@example.com	passwordef	4445556666	654 Birch St, Uptown, India
4	7	Priya	priya@example.com	passwordjkl	9990001111	741 Cedar St, Malltown, India
5	9	Arun	arun@example.com	passwordpqr	8889990000	852 Walnut St, Downtown, India

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

select c.courierId,u.* from courier c inner join user u on c.receiverName = u.name;

Query 1

```
select c.courierId,u.* from courier c inner join user u on c.receiverName = u.name
```

Result Grid

courierId	UserID	Name	Email	Password	ContactNumber	Address
1	2	Anushya	anushya@example.com	password456	9876543210	456 Elm St, Smalltown, India
2	4	Rajesh	rajesh@example.com	passwordabc	1112223333	321 Pine St, Downtown, India
3	6	Suresh	suresh@example.com	passwordghi	7778889999	987 Maple St, Citycenter, India
4	8	Deepika	deepika@example.com	passwordmno	2223334444	369 Oak St, Fixtown, India
5	10	Sanjay	sanjay@example.com	passwordstu	6667778888	159 Pine St, Shiptown, India

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

select c.courierID,s.* from courier c left join courierservice s on c.serviceId = s.serviceID;

```
select c.courierID,s.* from courier c left join courierservices s on c.serviceId = s.serviceID;
```

courierID	ServiceID	ServiceName	Cost
1	1	Standard Delivery	10.00
2	2	Express Delivery	20.00
3	3	Same-day Delivery	30.00
4	4	Overnight Delivery	15.00
5	5	International Delivery	25.00
6	6	Special Handling	50.00

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

select e.employeeID,e.name,e.role,count(p.courierID) as total_courier from employee e left join payment p on e.employeeID = p.employeeID group by e.employeeID;

```
select e.employeeID,e.name,e.role,count(p.courierID) as total_courier from employee e left join payment p on e.employeeID = p.employeeID group by e.employeeID;
```

employeeID	name	role	total_courier
1	Kumar	Manager	1
2	Raj	Delivery Person	1
3	Arun	Customer Service	1
4	Ganesh	Warehouse Management	1
5	vivek	IT	1
6	Anita	Sales	1

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

select p.locationId,l.locationName,sum(p.Amount) from payment p left join location l on p.locationId = l.locationId group by p.locationId;

```
select p.locationId,l.locationName,sum(p.Amount) from payment p left join location l on p.locationId = l.locationId group by p.locationId;
```

locationId	locationName	sum(p.Amount)
1	Main Office	10.00
2	Warehouse	20.00
3	Branch Office	15.00
4	Distribution Center	18.00
5	Regional Office	56.00
6	Headquarters	22.00

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

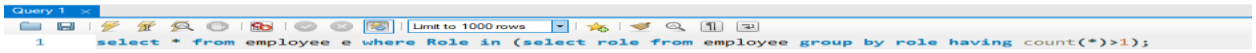
select * from courier where senderName in (select senderName from courier group by senderName having count(courierId)>1);

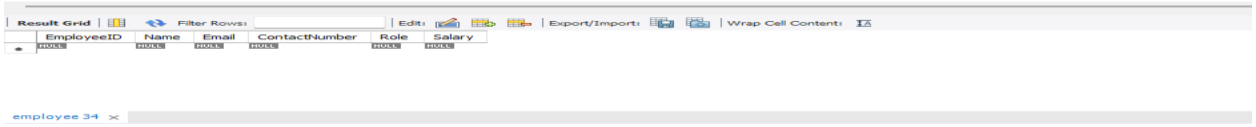
```
group by senderName having count(courierId)>1);
```

CourierID	serviceid	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

List all employees who share the same role.

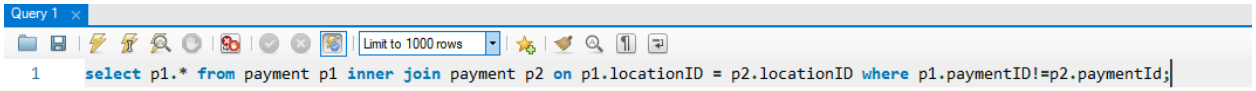
select * from employee e where Role in (select role from employee group by role having count(*)>1);

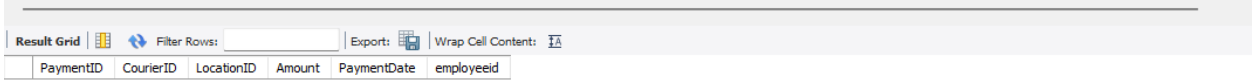




Retrieve all payments made for couriers sent from the same location.

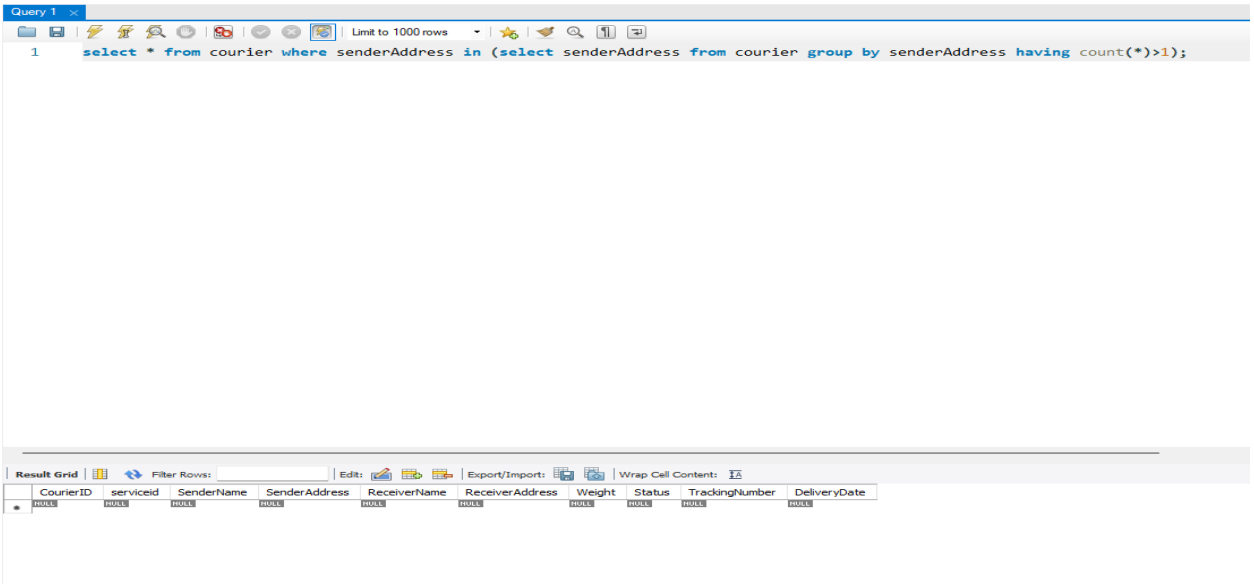
select p1.* from payment p1 inner join payment p2 on p1.locationID = p2.locationID where p1.paymentID!=p2.paymentId;





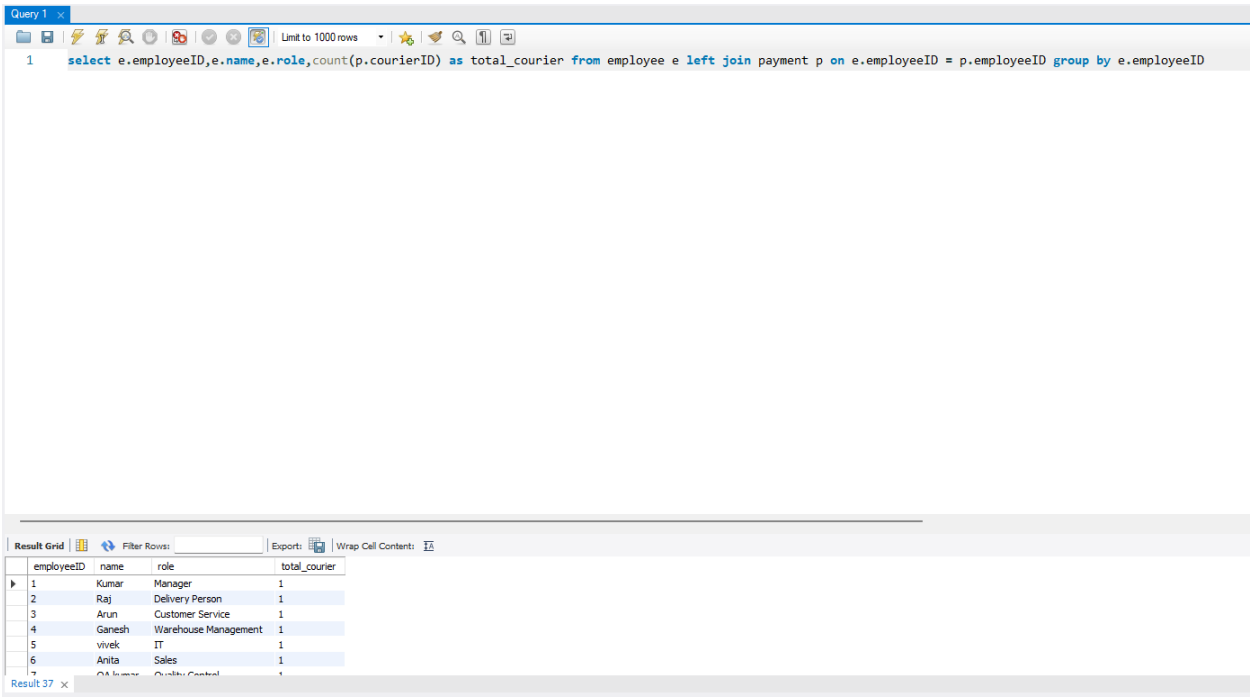
Retrieve all couriers sent from the same location (based on SenderAddress).

select * from courier where senderAddress in (select senderAddress from courier group by senderAddress having count(*)>1);



List employees and the number of couriers they have delivered:

select e.employeeID,e.name,e.role,count(p.courierID) as total_courier from employee e left join payment p on e.employeeID = p.employeeID group by e.employeeID;



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

select courierID from courier where weight > (select avg(weight) from courier);

```
select courierID from courier where weight > (select avg(weight) from courier);
```

courierID
3
5
8
10

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

select name from employee where salary > (select avg(salary) from employee);

```
select name from employee where salary > (select avg(salary) from employee);
```

name
Kumar
Ganesh
vivek
Latha
Renuka

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

select sum(cost) as total_cost from courierservice where cost<(select max(cost) from courierservice);

Query 1

```
select sum(cost) as total_cost from courierservices where cost<(select max(cost) from courierservices);
```

Result Grid

total_cost
195.00

Find all couriers that have been paid for

select c.*from courier c inner join payment p where c.courierID = p.courierId;

Query 1

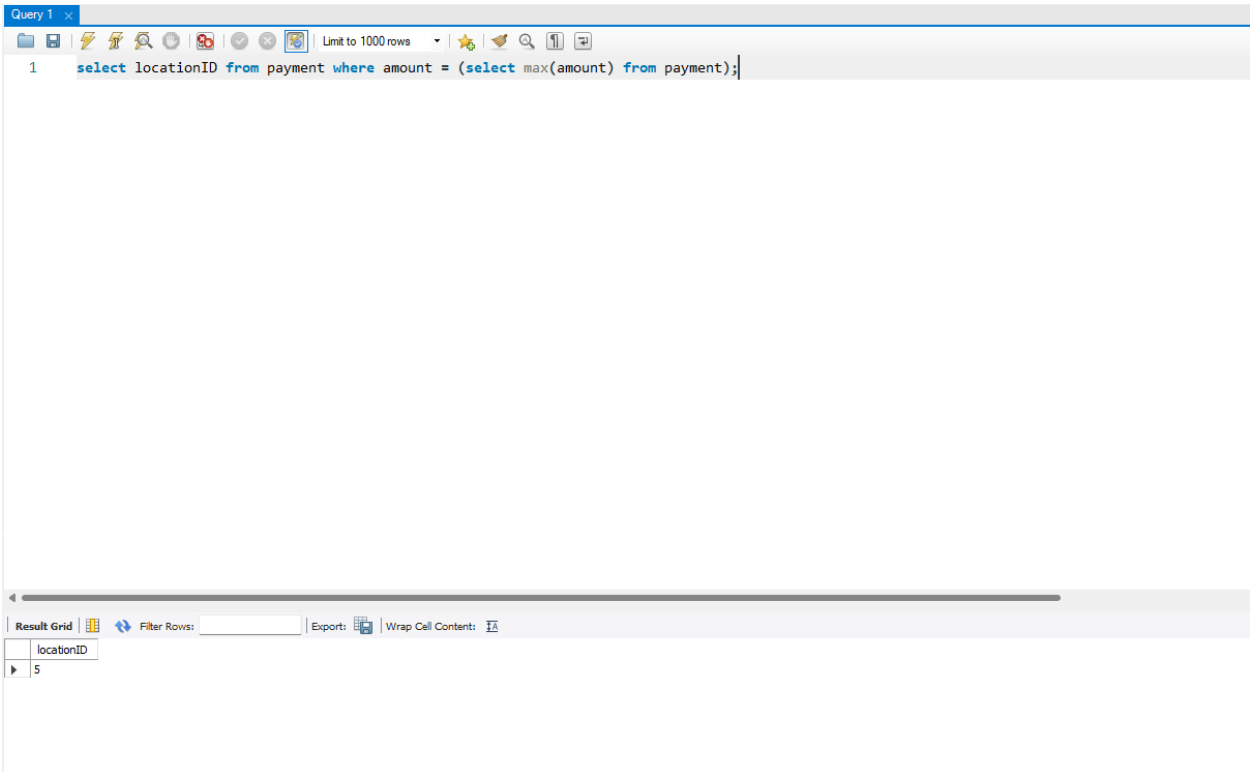
```
select c.*from courier c inner join payment p where c.courierID = p.courierId;
```

Result Grid

CourierID	serviceid	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate
1	1	Karthik	123 Main St, Bigcity, India	Anushya	456 Elm St, Smalltown, India	2.50	Delivered	ABC123	2024-04-10
2	2	Krishna	789 Oak St, Midtown, India	Rajesh	321 Pine St, Downtown, India	3.20	Delivered	DEF456	2024-04-11
3	3	Vijay	654 Birch St, Uptown, India	Suresh	987 Maple St, Citycenter, India	4.00	Delivered	GHI789	2024-04-12
4	4	Priya	741 Cedar St, Malltown, India	Deepika	369 Oak St, Fixtown, India	2.80	Pending	JKL012	NULL
5	5	Arun	852 Walnut St, Downtown, India	Sanjay	159 Pine St, Shiptown, India	3.50	Delivered	MNO345	2024-04-13
6	6	Raj	963 Elm St, Uptown, India	Vivek	753 Cedar St, Downtown, India	2.30	In Transit	PQR678	NULL
7	7	Anita	357 Oak St, Shiptown, India	Kumar	258 Walnut St, Fixtown, India	3.10	Pending	STU901	NULL

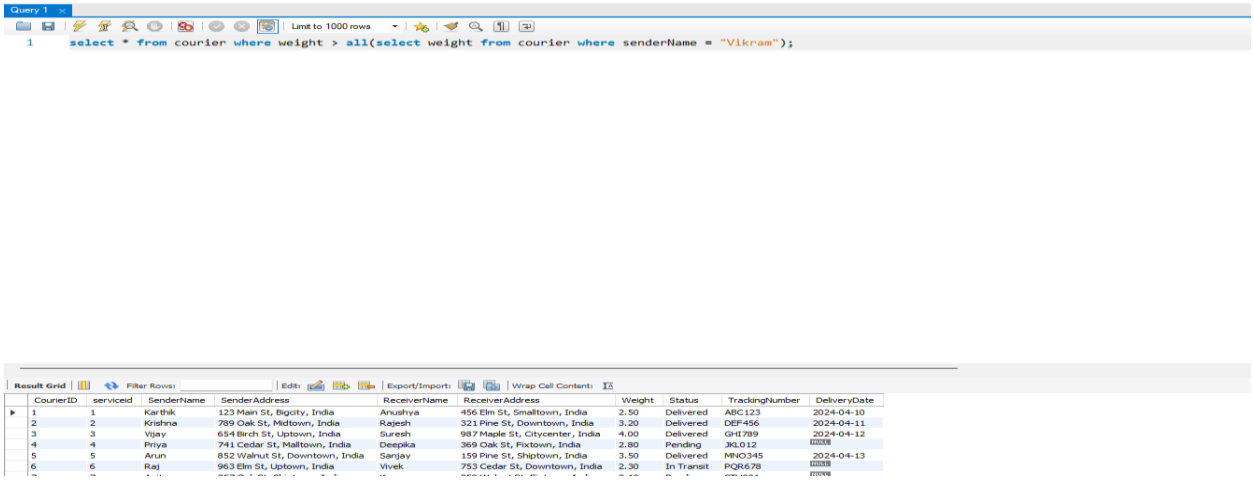
Find the locations where the maximum payment amount was made:

select locationID from payment where amount = (select max(amount) from payment);



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

select * from courier where weight > all(select weight from courier where senderName = "Vikram");



CourierID	serviceid	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate
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3	3	Vijay	654 Birch St, Uptown, India	Suresh	987 Maple St, Citycenter, India	4.00	Delivered	GHI789	2024-04-12
4	4	Priya	741 Cedar St, Mailtown, India	Deepika	369 Oak St, Fixtown, India	2.80	Pending	JKL012	NULL
5	5	Arun	852 Walnut St, Downtown, India	Sanjay	159 Pine St, Shiptown, India	3.50	Delivered	MNO345	2024-04-13
6	6	Raj	963 Elm St, Uptown, India	Vivek	753 Cedar St, Downtown, India	2.30	In Transit	PQR678	NULL