

ASSIGNMENT 4- COURIER MANAGEMENT SYSTEM

TASK 2

(Executed on Mysql Workbench)

All the tables with the data on it

1. Select * from user;

	UserID	Name	Email	Password	ContactNumber	Address
▶	1	John Doe	john.doe@example.com	Pass@123	9876543210	123 Main St, New York
	2	Jane Smith	jane.smith@example.com	Jane#456	9876543220	456 Oak St, Los Angeles
	3	Alice Brown	alice.brown@example.com	Alice@789	9876543230	789 Pine St, Chicago
	4	Bob Johnson	bob.johnson@example.com	Bob@101	9876543240	101 Maple St, Houston
	5	Emily Davis	emily.davis@example.com	Emily#202	9876543250	202 Cedar St, Miami
	6	Michael Wilson	michael.wilson@example.com	Mike@303	9876543260	303 Elm St, Seattle
•	NULL	NULL	NULL	NULL	NULL	NULL

2. Select * from courier;

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:									
	CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate
▶	1	John Doe	123 Main St, NY	Jane Smith	456 Oak St, LA	5.50	In Transit	TRK123456	2025-03-30
	2	Alice Brown	789 Pine St, Chicago	Bob Johnson	101 Maple St, Houston	2.75	Delivered	TRK234567	2025-03-25
	3	Emily Davis	202 Cedar St, Miami	Michael Wilson	303 Elm St, Seattle	1.90	Pending	TRK345678	2025-04-01
	4	Jane Smith	456 Oak St, LA	John Doe	123 Main St, NY	4.20	In Transit	TRK456789	2025-03-29
	5	Michael Wilson	303 Elm St, Seattle	Emily Davis	202 Cedar St, Miami	3.60	Out for Delivery	TRK567890	2025-03-31
	6	Bob Johnson	101 Maple St, Houston	Alice Brown	789 Pine St, Chicago	6.80	Delivered	TRK678901	2025-03-27
•	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

3. Select * from courierservices;

Result Grid Filter Rows: Edit:			
	ServiceID	ServiceName	Cost
▶	1	Standard Delivery	50.00
	2	Express Delivery	100.00
	3	Overnight Delivery	150.00
	4	International Shipping	200.00
	5	Same-Day Delivery	120.00
	6	Freight Shipping	300.00
•	NULL	NULL	NULL

4. Select * from employee_table;

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

	EmployeeID	Name	Email	ContactNumber	Role	Salary
▶	1	David Miller	david.miller@example.com	9876543270	Delivery Driver	35000.00
	2	Sophia Lee	sophia.lee@example.com	9876543280	Warehouse Manager	45000.00
	3	James Anderson	james.anderson@example.com	9876543290	Logistics Coordinator	40000.00
	4	Linda Martinez	linda.martinez@example.com	9876543300	Customer Support	32000.00
	5	Robert Thomas	robert.thomas@example.com	9876543310	Fleet Manager	55000.00
	6	Jessica Wilson	jessica.wilson@example.com	9876543320	Dispatcher	38000.00
✱	NULL	NULL	NULL	NULL	NULL	NULL

5. Select * from location_table;

Result Grid

Filter Rows:

Edit:

Export

	LocationID	LocationName	Address
▶	1	New York Hub	123 Warehouse Ave, NY
	2	Los Angeles Depot	456 Shipping Lane, LA
	3	Chicago Center	789 Freight St, Chicago
	4	Houston Terminal	101 Cargo Blvd, Houston
	5	Miami Station	202 Express Rd, Miami
	6	Seattle Facility	303 Logistics Dr, Seattle
•	NULL	NULL	NULL

6. Select * from payment_table;

Result Grid

Filter Rows:

Edit:

	PaymentId	CourierId	LocationId	Amount	PaymentDate
▶	1	1	1	50.00	2025-03-28
	2	2	3	100.00	2025-03-26
	3	3	5	75.00	2025-04-02
	4	4	2	120.00	2025-03-29
	5	5	6	90.00	2025-04-01
	6	6	4	60.00	2025-03-27
✱	NULL	NULL	NULL	NULL	NULL

TASK 2 QUESTIONS:

1. List all customers:

SELECT USERID, NAME FROM USER;

	USERID	NAME
▶	1	John Doe
	2	Jane Smith
	3	Alice Brown
	4	Bob Johnson
	5	Emily Davis
	6	Michael Wilson

2. List all orders for a specific customer:

SELECT * FROM COURIER WHERE SenderName='John Doe' or ReceiverName='John Doe';

	CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate
▶	1	John Doe	123 Main St, NY	Jane Smith	456 Oak St, LA	5.50	In Transit	TRK123456	2025-03-30
	4	Jane Smith	456 Oak St, LA	John Doe	123 Main St, NY	4.20	In Transit	TRK456789	2025-03-29
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

3. List all couriers:

Select * from courier;

	CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate
▶	1	John Doe	123 Main St, NY	Jane Smith	456 Oak St, LA	5.50	In Transit	TRK123456	2025-03-30
	2	Alice Brown	789 Pine St, Chicago	Bob Johnson	101 Maple St, Houston	2.75	Delivered	TRK234567	2025-03-25
	3	Emily Davis	202 Cedar St, Miami	Michael Wilson	303 Elm St, Seattle	1.90	Pending	TRK345678	2025-04-01
	4	Jane Smith	456 Oak St, LA	John Doe	123 Main St, NY	4.20	In Transit	TRK456789	2025-03-29
	5	Michael Wilson	303 Elm St, Seattle	Emily Davis	202 Cedar St, Miami	3.60	Out for Delivery	TRK567890	2025-03-31
	6	Bob Johnson	101 Maple St, Houston	Alice Brown	789 Pine St, Chicago	6.80	Delivered	TRK678901	2025-03-27
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

4. List all packages for a specific order:

SELECT CourierId, weight, deliverydate, trackingnumber from courier;

	CourierId	weight	deliverydate	trackingnumber
▶	1	5.50	2025-03-30	TRK123456
	2	2.75	2025-03-25	TRK234567
	3	1.90	2025-04-01	TRK345678
	4	4.20	2025-03-29	TRK456789
	5	3.60	2025-03-31	TRK567890
	6	6.80	2025-03-27	TRK678901

5. List all deliveries for a specific courier:

Each row in the courier table represents a delivery, we can filter it by CourierID or TrackingNumber

SELECT * from courier where CourierId=5;

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:									
	CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate
▶	5	Michael Wilson	303 Elm St, Seattle	Emily Davis	202 Cedar St, Miami	3.60	Out for Delivery	TRK567890	2025-03-31
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

6. List all undelivered packages:

SELECT * from courier where Status!='Delivered';

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:									
	CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate
▶	1	John Doe	123 Main St, NY	Jane Smith	456 Oak St, LA	5.50	In Transit	TRK123456	2025-03-30
	3	Emily Davis	202 Cedar St, Miami	Michael Wilson	303 Elm St, Seattle	1.90	Pending	TRK345678	2025-04-01
	4	Jane Smith	456 Oak St, LA	John Doe	123 Main St, NY	4.20	In Transit	TRK456789	2025-03-29
	5	Michael Wilson	303 Elm St, Seattle	Emily Davis	202 Cedar St, Miami	3.60	Out for Delivery	TRK567890	2025-03-31
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

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

SELECT * FROM COURIER WHERE DeliveryDate='2025-03-27';

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:									
	CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate
▶	6	Bob Johnson	101 Maple St, Houston	Alice Brown	789 Pine St, Chicago	6.80	Delivered	TRK678901	2025-03-27
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Packages that are scheduled to deliver by this month:

Select * from COURIER where DeliveryDate LIKE '%-03-%';

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:									
	CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate
▶	1	John Doe	123 Main St, NY	Jane Smith	456 Oak St, LA	5.50	In Transit	TRK123456	2025-03-30
	2	Alice Brown	789 Pine St, Chicago	Bob Johnson	101 Maple St, Houston	2.75	Delivered	TRK234567	2025-03-25
	4	Jane Smith	456 Oak St, LA	John Doe	123 Main St, NY	4.20	In Transit	TRK456789	2025-03-29
	5	Michael Wilson	303 Elm St, Seattle	Emily Davis	202 Cedar St, Miami	3.60	Out for Delivery	TRK567890	2025-03-31
	6	Bob Johnson	101 Maple St, Houston	Alice Brown	789 Pine St, Chicago	6.80	Delivered	TRK678901	2025-03-27
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

8. List all packages with a specific status:

Specific status means we can either display the data with status In Transit or Out for Delivery or Delivered. I am randomly choosing In Transit.

Select * from COURIER WHERE Status='In Transit';

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:									
	CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate
▶	1	John Doe	123 Main St, NY	Jane Smith	456 Oak St, LA	5.50	In Transit	TRK123456	2025-03-30
	4	Jane Smith	456 Oak St, LA	John Doe	123 Main St, NY	4.20	In Transit	TRK456789	2025-03-29
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

9. Calculate the total number of packages for each courier

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

Result Grid Filter Rows:		
	CourierID	TotalPackages
▶	1	1
	2	1
	3	1
	4	1
	5	1
	6	1

To display how many packages each sender has sent:

SELECT SenderName, COUNT(*) AS TotalPackages From courier
Group By SenderName;

Result Grid Filter Rows:		
	SenderName	TotalPackages
▶	John Doe	1
	Alice Brown	1
	Emily Davis	1
	Jane Smith	1
	Michael Wilson	1
	Bob Johnson	1

10. Find the average delivery time for each courier

To find the average delivery time for each courier, you need to calculate the difference between the DeliveryDate (from the courier table) and the PaymentDate (from the payment table) so there is a need of join query so this question is solved on TASK 3

11. List all packages with a specific weight range:

Select * from courier where weight>3.00;

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:									
	CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate
▶	1	John Doe	123 Main St, NY	Jane Smith	456 Oak St, LA	5.50	In Transit	TRK123456	2025-03-30
	4	Jane Smith	456 Oak St, LA	John Doe	123 Main St, NY	4.20	In Transit	TRK456789	2025-03-29
	5	Michael Wilson	303 Elm St, Seattle	Emily Davis	202 Cedar St, Miami	3.60	Out for Delivery	TRK567890	2025-03-31
	6	Bob Johnson	101 Maple St, Houston	Alice Brown	789 Pine St, Chicago	6.80	Delivered	TRK678901	2025-03-27
•	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

12. Retrieve employees whose names contain 'es'

SELECT * FROM employee_table WHERE Name LIKE '%es' OR
Name LIKE 'es%' OR Name LIKE '%es%';

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:						
	EmployeeID	Name	Email	ContactNumber	Role	Salary
▶	3	James Anderson	james.anderson@example.com	9876543290	Logistics Coordinator	40000.00
	6	Jessica Wilson	jessica.wilson@example.com	9876543320	Dispatcher	38000.00
•	NULL	NULL	NULL	NULL	NULL	NULL

13. Retrieve all courier records with payments greater than Rs.50.

SELECT * FROM payment_table where amount>50;

Result Grid Filter Rows: Edit:					
	PaymentId	CourierId	LocationId	Amount	PaymentDate
▶	2	2	3	100.00	2025-03-26
	3	3	5	75.00	2025-04-02
	4	4	2	120.00	2025-03-29
	5	5	6	90.00	2025-04-01
	6	6	4	60.00	2025-03-27
•	NULL	NULL	NULL	NULL	NULL