COURIER_MANAGEMENT_DB

use courier_man;

show databases;

show tables;

desc user;

select* from user;

```
/*insert into courier
(sender_name,sendrer_address,receiver_name,receiver_address,weight,status,tracking_num,delivery_date,user_user_id)

values ('saran','mumbai','aravin','hosur','25','delivered','001','2024/01/18',1),

('vinith','salem','sam','mumbail','5','delivered','002','2024/02/18',2),


('ravi','chennai','sheela','chennai','5','not delivered','101','2024/01/18',4),

('kamal','salem','dinesh','banglore','25','delivered','081','2023/01/18',5); */
```

select * from courier;

```
/*insert into employee (emp_id,name,email,contact,role,salary) values

(1,'biju','bij@gmail.com','789635241','pickup','10000'),

(2,'priya','p@gmail.com','789635256','delivery','54000'),

(3,'barath','b@gmail.com','789635285','delivery','28000'),

(4,'jason','j@gmail.com','789635246','pickup','20000'); */
```

select * from employee;

```
/*insert into location (location_id,location_name,address,employee_emp_id)

values

(4,'mall','banglore',2);*/
```

select * from location;

```sql
/*update location set location_id = 4 where employee_emp_id=4;*/


/*insert into payment(payment_id,amount,payment_date,courier_courier_id,location_location_id)

values

(1,5000,'2024-02-06',1,1),

(2,6000,'2024-01-06',2,2),

(3,8000,'2024-02-16',3,3),

(4,500,'2024-02-06',4,4);*/


/* task 1 */

select * from payment;

select courier_courier_id from payment where amount>5000;


/*insert into courier_service (service_id,service_name,cost) values

(1,'abs',100),

(2,'dfs',200),

(3,'hgs',110),

(4,'kbs',150);*/


select * from courier_service;

/* assignment  task2*/


select * from user;


select name from user where name like '%am%';


select * from courier;
```

select sender_name,receiver_name,weight from courier where weight between '10' and '26';

select courier_courier_id,amount from payment where amount>5000;

select * from courier where status = 'delivered';

select * from user where name='aravin';

select count(service_name) from courier_service;

/*task3: GroupBy, Aggregate Functions, Having, Order By, where

/*

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

15. Calculate the total revenue generated by each location

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

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

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

19. Calculate Total Payments per Location

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

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

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

```sql
select courier_courier_id, count(courier_courier_id) num_courier from orders group by(courier_user_user_id);


select l.location_name,l.address,p.payment_id,p.amount from location l JOIN payment p ON p.location_location_id = l.location_id having p.amount<5000;



select c.courier_id,l.location_name,l.address,p.amount from

location l JOIN payment p ON p.location_location_id=l.location_id JOIN courier c ON p.courier_courier_id=c.courier_id having p.amount >5000;



select c.courier_id,l.location_name,l.address,p.amount from

location l JOIN payment p ON p.location_location_id=l.location_id JOIN courier c ON p.courier_courier_id=c.courier_id having p.amount >50

 and l.location_name='park';


select * from payment;




select l.location_name,l.address,p.amount,c.delivery_date from

location l JOIN payment p ON p.location_location_id=l.location_id JOIN courier c ON p.courier_courier_id=c.courier_id having p.amount >50

and c.delivery_date='2024-01-18';



select l.location_name,l.address,p.amount,c.delivery_date from

location l JOIN payment p ON p.location_location_id=l.location_id JOIN courier c ON p.courier_courier_id=c.courier_id having p.amount >50

and c.delivery_date>'2024-01-18';


select * from payment group by location_location_id;
```

/*

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

23. Retrieve Payments with Courier Information*/

```
select p.payment_id,p.payment_date,c.courier_id,c.sender_name,c.receiver_name from payment
p,courier c

where p.courier_courier_id=c.courier_id;
```

/*24. Retrieve Payments with Location Information*/

```
select p.payment_id,p.payment_date,l.location_id,l.location_name from payment p,location l

where p.location_location_id=l.location_id;
```

/*5. Retrieve Payments with Courier and Location Information

26. List all payments with courier details*/

```
select
p.payment_id,p.payment_date,p.location_location_id,c.courier_id,c.sender_name,c.receiver_name
from payment p,courier c

where p.courier_courier_id=c.courier_id;
```

/*27. Total payments received for each courier

28. List payments made on a specific date*/

```
select* from payment;

select sum(amount) as payment,payment_id from payment group by courier_courier_id;

select * from payment where payment_date='2024-01-06';
```

/*29. Get Courier Information for Each Payment

30. Get Payment Details with Location

question repeated*/

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

select u.user_id,u.name,u.email,s.service_name,s.cost from user u,courier_service s;

select * from courier_service;

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

select e.emp_id,e.name,e.salary,l.location_name from employee e JOIN location l

where l.employee_emp_id=e.emp_id;

select * from location;

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

select sender_name,courier_id from courier group by courier_id;

/*

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

select receiver_address,receiver_name,courier_id from courier group by courier_id;

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

select * from courier_service;

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

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

SELECT location_location_id, SUM(amount) AS total_payment_amount

FROM payment

GROUP BY location_location_id;

/*

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

```
SELECT *

FROM courier

WHERE sender_name = 'saran';


/*44. List all employees who share the same role.*/

select * from employee where role='pickup';


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

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

SELECT *

FROM courier

WHERE sendrer_address = 'chennai';


SELECT *FROM payment WHERE courier_courier_id IN (

    SELECT courier_id

    FROM courier

    WHERE sendrer_address = 'chennai');




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



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

select courier_courier_id,amount from payment where amount >(select max(cost) from courier_service);


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


select * from courier_service;
```

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

select weight,courier_id from courier where weight >(select avg(weight) from courier);

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

select emp_id,salary from employee where salary>(select avg(salary) from employee);

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

select sum(cost) from courier_service where cost <(select max(cost) from courier_service);

/*Find all couriers that have been paid for*/

select courier_id,status from courier where courier_id NOT IN (select courier_courier_id from payment);

/* Find the locations where the maximum payment amount was made

 Find all couriers whose weight is greater than the weight of all

couriers sent by a specific sender*/

SELECT location_location_id

FROM payment

WHERE amount = (SELECT MAX(amount) FROM payment);

select weight from courier where weight =(select max(weight) from courier);