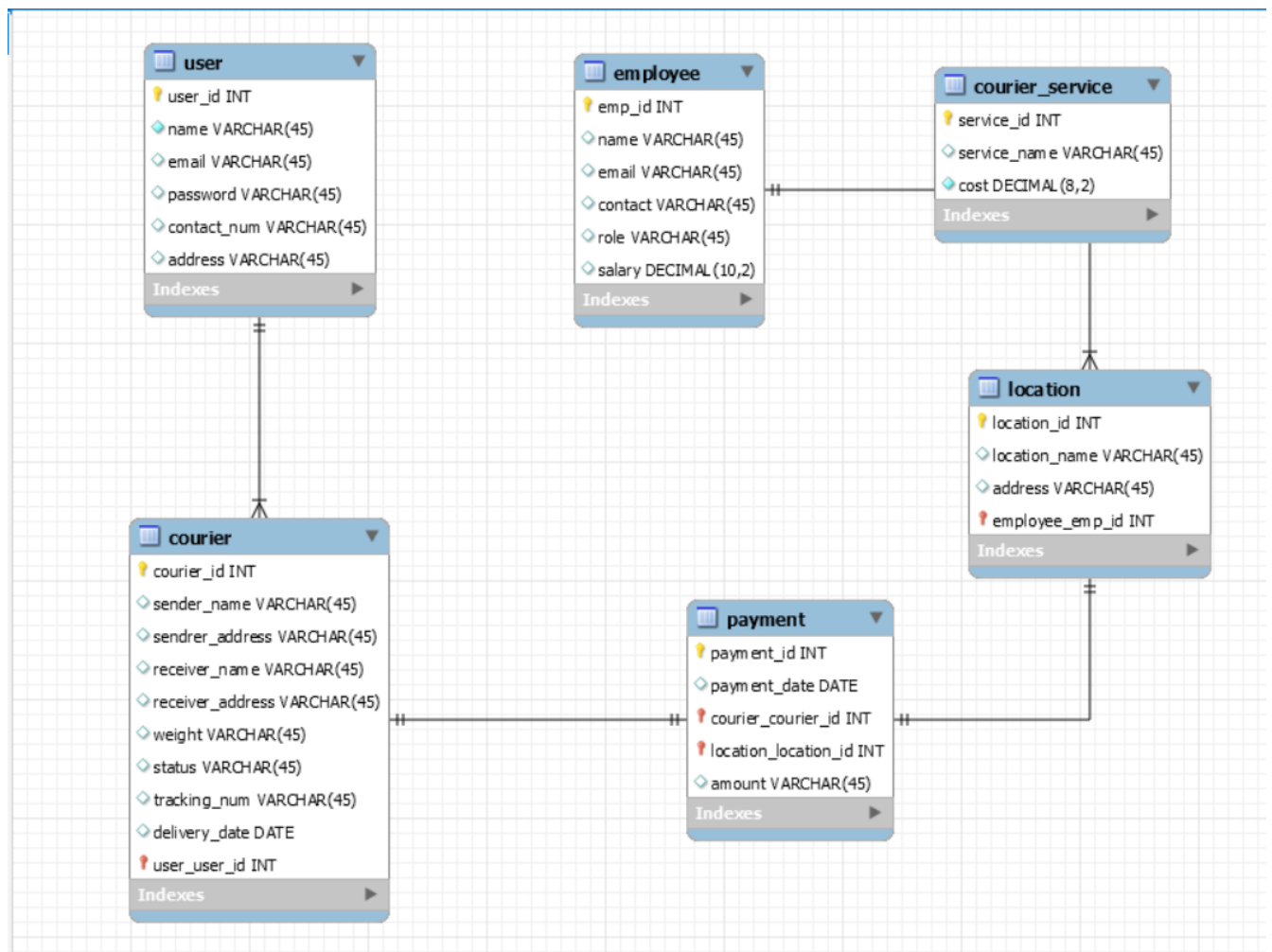


COURIER_DB



use courier_man;

show databases;

show tables;

desc user;

select* from user;

```
/*insert into courier
(sender_name,sender_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;
```

```
/*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);*/
```

```
/* assignment task2*/
```

```
/* 2: Select,Where
```

Solve the following queries in the Schema that you have created above

1. List all customers:*/

```
select * from user;
```

/*2. List all orders for a specific customer:*/

```
select * from orders;
```

/*3. List all couriers:*/

```
select * from courier;
```

/*4. List all packages for a specific order:*/

```
select * from user where name='aravin';
```

```
/*5. List all deliveries for a specific courier:*/
```

```
select * from courier where status = 'delivered';
```

```
/*6. List all undelivered packages:*/
```

```
select * from courier where status = 'delivered';
```

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

```
8. List all packages with a specific status:*/
```

```
/*9. Calculate the total number of packages for each courier.*/
```

```
select count(service_name) from courier_service;
```

```
/*10. Find the average delivery time for each courier
```

```
doubt
```

```
/*11. List all packages with a specific weight range:*/
```

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

/*12. Retrieve employees whose names contain 'John'*/

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

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

select courier_courier_id,amount from payment where amount>500

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

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

SELECT e.name, COUNT(c.id) AS total_couriers_handled

FROM employee e

LEFT JOIN courier c ON e.id = c.employee_id

GROUP BY e.name;

/*Calculate the total revenue generated by each location*/

SELECT l.location_name, SUM(p.amount) AS total_revenue

FROM location l

JOIN courier c ON l.id = c.location_id

JOIN payment p ON c.id = p.courier_id

GROUP BY l.location_name;

/*Find the courier with the highest average delivery time:
doubt*/

/*Find Locations with Total Payments Less Than a Certain Amount*/

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;

/*Calculate Total Payments per location*/

SELECT l.location_name, SUM(p.amount) AS total_payment
FROM location l JOIN courier c ON l.id = c.location_id
JOIN payment ON courier.id = p.courier_id GROUP BY l.location_name;

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

select c.courier_id,l.location_name,l.address,l.location_id,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_id=5

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

```
select 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';
```

/*22. Retrieve locations where the total amount received is more than \$5000
before a certain date*/

```
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';
```

/*Task 4: Inner Join,Full Outer Join, Cross Join, Left Outer Join,Right Outer Join
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;
```

/* 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_id=l.location_id;
```

```
/*Retrieve Payments with Courier and Location Information*/
```

```
Select p.payment_id,p.payment_date,p.location_id,c.courier_id,  
c.sender_name,c.receiver_name from payment p,courier c  
where p.courier_id=c.courier_id;
```

```
/* Total payments received for each courier*/
```

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

```
/* List payments made on a specific date*/
```

```
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;
```


/*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;
```

/*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.*/

SELECT *

FROM courier

WHERE sender_address = 'chennai';

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

SELECT *FROM payment WHERE courier_courier_id IN (

SELECT courier_id

FROM courier

WHERE sender_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*/

```
SELECT location_location_id
```

```
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*/

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