```
create table Employees(employee id int primary
key,first_name varchar(50),last_name varchar(50),
hire date DATE, department id int, salary decimal(10,2));
describe Employees;
insert into employees (employee_id,first_name,last_name,
hire_date,department_id,salary) values
(1,'Bipul','Kumar','2022-01-15',1,60000),
(2, 'Rohit', 'Sharma', '2023-01-13',1,00000), (3, 'Ajay', 'Devgan', '2020-01-10',2,70000), (4, 'Rahul', 'Dravid', '2021-01-12',2,75000), (5, 'Pavan', 'Kumar', '2022-01-10',3,50000), (6, 'Rajesh', 'Kumar', '2023-01-19',3,80000);
DQL Statements
select * from employees;
select first_name,hire_date,salary from employees;
select * from employees where department id=1;
select * from employees order by last name;
select * from employees order by last_name,first_name;
select * from employees order by salary;
select * from employees order by salary desc;
SOL Functions
select department id, COUNT(*) from employees group by
department_id;
select department_id,avg(salary) from employees group by
department_id;
select avg(salary) from employees;
select sum(salary) from employees;
select count(*) from employees;
```

```
select min(salary) from employees;
select max(salary) from employees;
select first name, last name from employees;
select concat(first_name,' ',last_name) from employees;
select concat(first_name,' ',last_name) as full_name from
employees;
select first name, length(first name) from employees;
select upper(first name) from employees;
select lower(last name) from employees;
select substring(last name, 1, 3) from employees;
Date - Time Functions
select now();
select date format(hire date , '%Y-%m-%d') from
employees;
select date_format(hire_date , '%d-%m-%Y') from
employees;
select datediff(now(),hire_date) as days_since_hire from
employees;
select * from Employees where salary > (select
avg(salary) from employees);
```

Logical Functions

```
Case when - perform conditional logic in query
select first name, salary,
    -> case
   -> when salary > 60000 then 'High'
   -> when salary > 40000 then 'Medium'
    -> else 'Low'
   -> end as salary_category
    -> from employees:
select round(salary,2) from employees;
select abs(salary) from employees;
DML Statements
select * from Employees;
update employees set salary = 78000 where employee_id=3;
delete from employees where employee id = 5;
update employees set full_name = concat(first_name,' ' ,
last name),
   -> location id=107
   -> where employee_id=7;
***********************
**--Concat first name & last name into full name add this
full name into a new column full name-**
#add a column full name into employees
alter table employees add column full_name varchar(100);
#update the column values with full name data
update employees set full name = concat(first name , '
' , last_name);
Select * from employees;
```

```
update employees set location id = case when employee id
= 1 then 101 when employee_id = 2 then 102 when
employee id = 3 then 103 when employee id = 4 then 104
when employee id = 5 then 105 when employee id = 6 then
106 end:
update employees set location_id = v.location_id
from (values
      (1,201),
       (2,202),
       (3,303),
       (4,404),
       (5,505),
       (6,606)) as v(employee id, location id)
Where employees.employee id = v.employee id
**Create a new data table after ordering existing one
based on salary**
create table ordered_employee as select * from employees
order by salary;
**Create a new data table after assigning High, Medium or
Low to each sample based on salary**
create table salary cat table as select
first name, salary,
    -> case
    -> when salary > 60000 then 'High'
    -> when salary > 40000 then 'Medium'
    -> else 'Low'
    -> end as salary category
    -> from employees;
```