create schema employee;

use employee;

create table employees( emp\_id int primary Key, name varchar(100), dept\_name varchar(100), salary decimal(10,2), age int, gender varchar(10));

Insert into employees(emp\_id,name,dept\_name,salary,age,gender) values(101,'Saravanan','ECE',100000,21,'MALE');

Insert into employees(emp\_id,name,dept\_name,salary,age,gender) values(102,'VelKrishnaraja','ECE',100000,21,'MALE');

Insert into employees(emp\_id,name,dept\_name,salary,age,gender) values(103,'Dd','ECE',100000,21,'MALE');

Insert into employees(emp\_id,name,dept\_name,salary,age,gender) values(104,'Praveen D','ECE',100000,21,'MALE');

Insert into employee.employees(emp\_id,name,dept\_name,salary,age,gender) values(105,'Divya','IT',60000,20,'FEMALE');

Insert into employee.employees(emp\_id,name,dept\_name,salary,age,gender) values(106,'Maran','Finance',65000,25,'MALE');

Insert into employee.employees(emp\_id,name,dept\_name,salary,age,gender) values(107,'Bharani','CSE',62000,21,'MALE');

Insert into employee.employees(emp\_id,name,dept\_name,salary,age,gender) values(108,'Aaryan','IT',60000,21,'MALE');

Insert into employee.employees(emp\_id,name,dept\_name,salary,age,gender) values(109,'Sagar','CSE',67000,19,'MALE');

Insert into employee.employees(emp\_id,name,dept\_name,salary,age,gender) values(110,'Vishva','ECE',60000,19,'MALE');

Select name,salary from employee.employees;

select \* from employee.employees where dept\_name='IT';

select \* from employee.employees order by salary Desc;

select name from employee.employees order by name ASC;

select dept\_name, SUM(salary) As totalsalary From employees GROUP BY dept\_name;

select dept\_name, AVG(age) AS Average FROM employees GROUP BY dept\_name;

select dept\_name, count(\*) AS emp\_count From employees GROUP BY dept\_name;

select name, dept\_name,salary from employees;

SELECT dept\_name, MAX(salary) AS max\_salary FROM employees GROUP BY dept\_name;

-- Products Table

create schema Products;

use Products;

CREATE TABLE Products( product\_id INT PRIMARY KEY, product\_name VARCHAR(100),catagory VARCHAR(50),unit\_price DECIMAL(10,2));

INSERT INTO Products (product\_id, product\_name, catagory, unit\_price) VALUES (101,'Laptop','Electronics',500.00);

INSERT INTO Products (product\_id, product\_name, catagory, unit\_price) VALUES (102,'Tablet','Electronics',300.00);

INSERT INTO Products (product\_id, product\_name, catagory, unit\_price) VALUES (103,'Mobile','Electronics',30.00);

INSERT INTO Products (product\_id, product\_name, catagory, unit\_price) VALUES (104,'Pendrive','Electronics',38.00);

INSERT INTO Products (product\_id, product\_name, catagory, unit\_price) VALUES (105,'Mouse','Electronics',15.00);

SELECT \* FROM products;

select product\_name, unit\_price from products;

SELECT \* FROM products where catagory='Electronics';

SELECT product\_id,product\_name from products where unit\_price>100;

SELECT AVG(unit\_price) AS unit\_priceavg FROM products;

select product\_name, max(unit\_price) as Max\_price from products group by product\_name limit 2 offset 2;

select product\_name, unit\_price from products order by unit\_price desc;

SELECT product\_name, unit\_price FROM products WHERE unit\_price= (SELECT MAX(unit\_price) FROM products);

SELECT product\_name, unit\_price FROM products ORDER BY unit\_price DESC;

SELECT product\_name, unit\_price FROM products WHERE unit\_price BETWEEN 20 and 600;

select product\_name, catagory from products order by catagory asc;

-- Sales Table

CREATE TABLE Sales (

sale\_id INT PRIMARY KEY,

product\_id INT,

quantity\_sold INT,

sale\_date DATE,

total\_price DECIMAL(10, 2),

FOREIGN KEY (product\_id) REFERENCES Products(product\_id)

);

INSERT INTO Sales (sale\_id, product\_id, quantity\_sold, sale\_date, total\_price) VALUES

(1, 101, 5, '2024-01-01', 2500.00),

(2, 102, 3, '2024-01-02', 900.00),

(3, 103, 2, '2024-01-02', 60.00),

(4, 104, 4, '2024-01-03', 80.00),

(5, 105, 6, '2024-01-03', 90.00);

SELECT \* FROM products.sales;

SELECT sale\_id, sale\_date FROM Sales;

SELECT \*FROM Sales WHERE total\_price > 100;

SELECT sale\_id, total\_price FROM Sales WHERE sale\_date = '2024-01-03';

SELECT SUM(quantity\_sold) AS total\_quantity\_sold FROM Sales;

SELECT sale\_id, product\_id, total\_price FROM Sales WHERE quantity\_sold > 4;

SELECT AVG(total\_price) AS average\_total\_price FROM Sales