**DBMS QUARY**

**List down Male Customers**

```
SELECT * FROM Customer WHERE Gender= 'male';
```

**Get Count Female Customers**

```
SELECT COUNT(*) FROM CUSTOMER WHERE GENDER='Female';
```

**Table Add New Colum**

```
ALTER TABLE Customer

ADD  Address VARACHAR(10);
```

**Table Colum Delete**

```
ALTER TABLE Customer

DROP Address;
```

**FORIGN KEY**

```
FORIGN KEY (Cus_id) REFERANCE CustomerTbl (Customer_id)
```

**WE Like colum Get**

```
SELECT itemCode,UnitPrice,qty FROM orderDetail;
```

**Get Limit Colums**

```
SELECT Unitprice,qty,itemCode FROM orderdetail ORDER BY qty LIMIT 5;
```

**Update**

```
UPDATE Item

SET description = 'Chiken' , CODE = 'P001'

WHERE qtyOnHand = 34;
```

```
SELECT COUNT(*) FROM orders WHERE date >='2009-02-20' AND date <='2009-04-15';

SELECT * FROM orders WHERE date >='2011-06-11' AND date <='2023-03-27';

SELECT COUNT(*) FROM Item WHERE unitPrice >='100' AND unitPrice <= '500';

SELECT COUNT(*) FROM orderdetail WHERE unitprice >='500' AND unitprice <='2000';
```

**Join Quary**

```
SELECT
SUPPLY.SUPPLIER_ID,
SUPPLY.Item_code,
SUPPLY.qty,
suppliers.description,
suppliers.contact

FROM SUPPLY
JOIN SUPPLIERS
ON  supply.supplier_id=suppliers.supplier_id;
```

**Join Quary Style**

```
SELECT
* or columNames
FROM
JOIN
ON ;
```

**AUTO INCRIMENT**

```
CREATE TABLE ExampleTable (
  id INT AUTO_INCREMENT PRIMARY KEY,
  name VARCHAR(50),
  age INT
);
INSERT INTO ExampleTable (name, age) VALUES ('John', 25);
INSERT INTO ExampleTable (name, age) VALUES ('Jane', 30);
```

**Left Join**

```
SELECT
*
FROM
ORDERS
LEFT JOIN orderdetail
ON orderdetail.orderId=orders.id;
```

**//////////////////////////////////////////////////////////////////////////////////////////////////////////////////**

//Display all students

```
SELECT *
FROM student;
```

//Display all courses

```
SELECT *
```

```
FROM course;

//Display all instructors

SELECT *
FROM instructor;

//Display student_id,name,address

SELECT student_id,name,address
FROM student;

//Display course_id,name,duration

SELECT course_id,name,duration
FROM course;


//Display name,email,phone(instructor)

SELECT name,email,phone
FROM instructor;

//Display the name, address and age of students starting from lowest age to highest age

SELECT name,address,age
FROM student
ORDER BY age;

SELECT name,address,age
FROM student
ORDER BY age ASC;


//Display the name, address and age of students starting from highest age to  lowest age

SELECT name,address,age
FROM student
ORDER BY age DESC;


//Display the 3 students with the highest age

SELECT name,address,age
FROM student
```

```
ORDER BY age DESC LIMIT 3 ;
```

//Display the 5 courses with the lowest duration

```
SELECT name,duration
FROM course
ORDER BY duration LIMIT 5;
```

//Eliminate the 4 students with the lowest age and display 4 students with second highest age

```
SELECT *
FROM student
ORDER BY age LIMIT 4,4;
```

//Eliminate the 3 students with the highest age and display 5 students with second lowest age

```
SELECT *
FROM student
ORDER BY age DESC  LIMIT 3,5;
```

//Display the details of a specific student (e.g., student with ID 'S001')

```
SELECT *
FROM student
WHERE student_id = 'S001';
```

//Display the details of a specific course (e.g., course with ID 'C003')

```
SELECT *
FROM course
WHERE course_id = 'C001';
```

//Display the details of a specific instructor (e.g., instructor with ID 'I002')

```
SELECT *
FROM instructor
WHERE instructor_id = 'I002';
```

//Display the courses taught by a specific instructor (e.g., instructor with ID 'I001')

```
SELECT instructor_id,name
FROM course
WHERE instructor_id = 'I001';
```

//Display the name, address and age of students whose age is greater than 20 in order of their age

```
SELECT name,age,address
FROM student
WHERE age>20;
```

//Get the name,addresses where students come from

```
SELECT name,address
FROM student;
```

//Get the count of students from each address

```
SELECT address,COUNT(student_id)
FROM student
GROUP BY address;
```

—----------

```
SELECT address,COUNT(student_id) AS student_count
FROM student
GROUP BY address
ORDER BY student_count DESC;
```

//Number of courses each students has made

```
SELECT student_id,count(course_id) AS course_count
FROM student_course
GROUP BY student_id;
```

//Get the maximum age each address get

```
SELECT address, MAX(age) AS max
```

```
FROM student
GROUP BY address;
```

//Get the minimum age each address get

```
SELECT address, MIN(age) AS min
FROM student
GROUP BY address;
```

//Get the average age each address get

```
SELECT address, AVG(age) AS avg
FROM student
GROUP BY address;
```

//Get the total age each address get

```
SELECT address, SUM(age) AS total
FROM student
GROUP BY address;
```

----- SEQUENCE -------

```
SELECT column_name(s)
FROM table
WHERE condition
GROUP BY column_name(s)
HAVING condition
ORDER BY coulumn_name(s);
```

//Display the addresses where more than 1 student live

```
SELECT address, COUNT(student_id) AS count
FROM student
GROUP BY address
HAVING count > 1 ;
```

//Display the instructor IDs and their average course durations for instructors who have an average course duration greater than 10

```
SELECT instructor_id, AVG(duration) AS avg_duration
FROM course
GROUP BY instructor_id
HAVING avg_duration > 10;
```

//Display address where the name ends with 'bo'.

```
SELECT address
FROM  student
WHERE  address LIKE  '%bo';
```

--------  DISTINCT------

```
SELECT DISTINCT(address)
FROM  student
WHERE  address LIKE  '%bo';
```

//Display address where the name starts with 'A'.

```
SELECT address
FROM  student
WHERE  address LIKE  'A%';
```

----------JOIN----------

//Get all the details from students and students courses

```
SELECT *

FROM student
JOIN student_course
ON  student.student_id = student_course.student_id ;
```

//Get student name, course_id, enrollment_date

```
SELECT
student.name,
student_course.course_id,
student_course.enrollment_date

FROM student
JOIN student_course
ON student.student_id = student_course.student_id ;
```

—---------- Label —----------

```
SELECT
S.name,
SC.course_id,
SC.enrollment_date

FROM student S
JOIN student_course SC
ON  S.student_id  =  SC.student_id ;
```

//Get course_id, course_name , student_id ,enrollment_date

```
SELECT
C.course_id,
C.name,
SC.student_id,
SC.enrollment_date

FROM course C
JOIN student_course SC
ON  C.course_id = SC.course_id ;
```

//Display the student details (student_id, name) along with their enrolled course details (course_id, name)

```
SELECT

S.student_id,
S.name,
SC.course_id,
C.name

FROM student S
JOIN student_course SC
ON S.student_id = SC.student_id

JOIN course C
ON SC.course_id = C.course_id;
```

//Display the course details (course_id, name) along with the name of the instructor teaching each course(instructor_id,name)

```
SELECT
C.course_id,
C.name,
I.instructor_id,
I.name

FROM course C
JOIN instructor I
ON  C.instructor_id = I.instructor_id ;
```

//Display the student names and their corresponding instructor names(student_name, instructor_name)

```
SELECT

S.name AS studnet_name,
I.name AS instructor_name

FROM student S
JOIN student_course SC
ON S.student_id = SC.student_id

JOIN course C
ON SC.course_id = C.course_id

JOIN instructor I
ON C.instructor_id = I.instructor_id;
```