ASSIGNMENT 3

1. Extract the first three characters from your names.

2. Convert your name to both UPPERCASE and lowercase.

3. Concatenate the first name and last name of yourself with a space in between.

4. Find the position of the substring 'IT' in your department names.

5. Get the current date and time.

PART 2

• CREATE TABLE Students (student_id INT PRIMARY KEY, student_name VARCHAR(100) NOT NULL, gender CHAR(1) CHECK (gender IN ('M', 'F', 'O')), date of birth DATE NOT NULL);

mysql> CREATE TABLE Students (student_id INT PRIMARY KEY, student_name VARCHAR(100) NOT NULL, gender CHAR(1) CHECK (gender I N ('M', 'F', '0')), date_of_birth DATE NOT NULL);
Query OK, 0 rows affected (0.06 sec)

 CREATE TABLE Subjects (subject_id INT PRIMARY KEY, subject_name VARCHAR(100) NOT NULL);

```
mysql> create table subject(subject_id INT PRIMARY KEY, subject_name varchar(20)); Query OK, 0 rows affected (0.06 sec)
```

 CREATE TABLE Marks (student_id INT, subject_id INT, marks_obtained INT, FOREIGN KEY (student_id) REFERENCES Students(student_id), FOREIGN KEY (subject id) REFERENCES Subjects(subject id));

mysql> CREATE TABLE Marks (student_id INT, subject_id INT, marks_obtained INT, FOREIGN KEY (student_id) REFERENCES Students(student_id), FOREIGN KEY (subject_id) REFERENCES subject(subject_id));
Query OK, 0 rows affected (0.09 sec)

mysql> select			+
			date_of_birth
100	John Alice	l M	 2000-05-15 1999-08-22
102 103	Bob Eve	M F	2001-11-10 2000-01-30
+ 4 rows in set		+	+
mysql> select +	* from subjec		
subject_id +	subject_name	: İ	
200	Physics Chemistry	1	
202 203	Biology Computer Sci	lence	
++ 4 rows in set	(0.00 sec)	+	
mysql> select	* from Marks;		
	subject_id		ained
100 100	200 201		75 85
101	200 202		65 90
102	200		70
102 103	203 201		88 95
103	202		78
8 rows in set			+

1. Retrieve all the records from the students table.

student_id	student_name gen	nder date_of_birth
101 102	John M Alice F Bob M Eve F	2000-05-15 1999-08-22 2001-11-10 2000-01-30

2. Retrieve the student name and date of birth of all students.

3. Update the name to 'Ram' for the student with student id 100.

```
mysql> update Students set student_name = 'Ram' where student_id = 100;
Query OK, 1 row affected (0.05 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from Students;
| student_id | student_name | gender | date_of_birth |
| 100 | Ram | M | 2000-05-15 |
| 101 | Alice | F | 1999-08-22 |
| 102 | Bob | M | 2001-11-10 |
| 103 | Eve | F | 2000-01-30 |
| 4 rows in set (0.00 sec)
```

4. Retrieve the names of all students who are male (gender = 'M').

5. List the names of students who were born after the year 2000.

6. Retrieve all records from the marks table where the student scored more than 80 marks.

```
mysql> select student_id,subject_id,marks_obtained from Marks where marks_obtained>80;

| student_id | subject_id | marks_obtained |
| 100 | 201 | 85 |
| 101 | 202 | 90 |
| 102 | 203 | 88 |
| 103 | 201 | 95 |
4 rows in set (0.00 sec)
```

7. Update the subject name to 'mathematics' where subject_id is 202.

8. Calculate the age of each student based on their date of birth.

9. Find the day of the week each student was born.

```
mysql> SELECT student_name, date_of_birth, DAYNAME(date_of_birth) AS day_of_week FROM students;

| student_name | date_of_birth | day_of_week |
| Ram | 2000-05-15 | Monday |
| Alice | 1999-08-22 | Sunday |
| Bob | 2001-11-10 | Saturday |
| Eve | 2000-01-30 | Sunday |
| 4 rows in set (0.00 sec)
```

10. Display the students who were born in the month of May.