DEPARTMENT OF MECHATRONICS

SQL

ASSIGNMENT-1

NAME OF THE STUDENT	DHILIPKUMAR T
REGISTER NUMBER	22UMT009
YEAR/SEMESTER	IV/VII
ASSIGNMENT NUMBER	1

SQL ASSIGNMENT-1

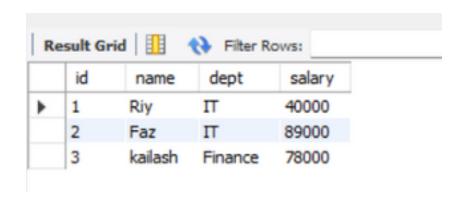
Q1. Increase salary by 10% for all employees in the 'IT' department.

Query:

create table student(id int,name varchar(100),dept varchar(100),salary float);

```
insert into student values(1,"Riy","IT",40000),(2,"Faz","IT",89000),(3,"kailash","Finance",78000);
select * from student
```

update student set salary=salary*1.10 where dept="IT";



Q2. Delete all employees whose department is 'HR'.

Query:

create table studenrt(id int,name varchar(100),dept varchar(100),salary float);

insert into studenrt values(1,"Riy","IT",40000),(2,"Faz","IT",89000)

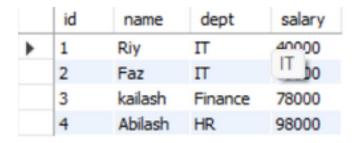
,(3,"kailash","Finance",78000),(4,"Abilash","HR",98000);

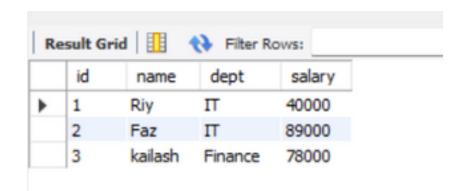
select * from student

DELETE FROM student

WHERE dept = 'HR';

SELECT * FROM student;





Q3.Write a query to delete a record from the Employees table where ID = 5.

Query:

create table studentr1(id int,name varchar(100),dept varchar(100),salary float); insert into studentr1 values(1,"Riy","IT",40000),(2,"Faz","IT",89000),(3,"kailash","Finance",78000),(4,"Abilash","HR",98000),(5,"deepak","HR",40000); delete from studentr1 where id=5; select * from studentr1

id name dept salary Riy П 40000 1 2 Faz П 89000 3 kailash Finance 78000 4 Abilash HR 98000 5 deepak HR 40000

	id	name	dept	salary
•	1	Riy	IT	40000
	2	Faz	IT	100
	3	kailash	Finance	78000
	4	Abilash	HR	98000

Q4.Write a query to update multiple columns in a table using a single statement.

Query:

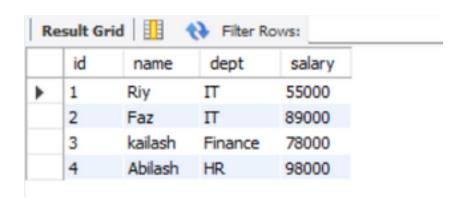
```
create table studentr1(id int,name varchar(100),dept varchar(100),salary float); insert into studentr1 values(1,"Riy","IT",40000),(2,"Faz","IT",89000)
,(3,"kailash","Finance",78000),(4,"Abilash","HR",98000),(5,"deepak","HR",40000);
```

UPDATE studentr1

SET name = 'Riy', salary = 55000

WHERE id = 1;

select * from studentr1



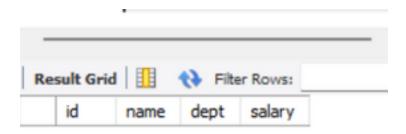
Q5.Delete all records from a table but keep the structure.

Query:

```
create table studentr1(id int,name varchar(100),dept varchar(100),salary float);
insert into studentr1 values(1,"Riy","IT",40000),(2,"Faz","IT",89000)
,(3,"kailash","Finance",78000),(4,"Abilash","HR",98000),(5,"deepak","HR",40000);
UPDATE studentr1
SET name = 'Riy', salary = 55000
WHERE id = 1;
```

delete from studentr1;

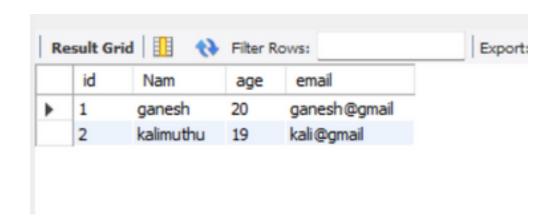
select * from studentr1



Q6. Write a query to create a table called Students with columns: ID, Name, Age, and Email

Query:

create table Students(id int,Nam varchar(100),age int,email varchar(100)); insert into Students values(1,"ganesh",20,"ganesh@gmail"),(2,"kalimuthu",19,"kali@gmail"); select * from Students



Q7. Create a table and set the default value of the status column to 'Active'.

Query:

```
CREATE TABLE Users (

ID INT PRIMARY KEY,

Name VARCHAR(100),

Email VARCHAR(100),

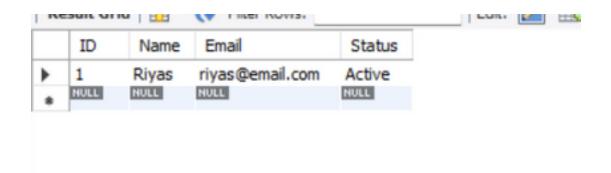
Status VARCHAR(20) DEFAULT 'Active'

);

INSERT INTO Users (ID, Name, Email)

VALUES (1, 'Riyas', 'riyas@email.com');

SELECT * FROM Users;
```



Q8.Write a query to drop a table named TempData.

Query:

create database fan;

create table tempdata(id int, namess varchar(100), age varchar(100));

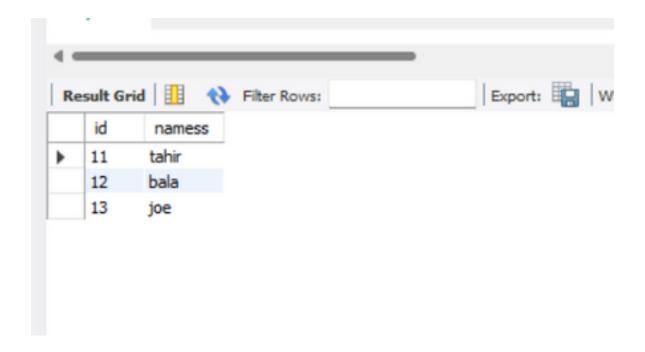
insert into tempdata values(11,"tahir","12");

drop table tempdata;

drop data

create database fan;

```
create table tempdat1a(id int,namess varchar(100),age varchar(100));
insert into tempdat1a values(11,"tahir","12"),(12,"bala","90"),(13,"joe","78");
alter table tempdat1a drop column age;
select * from tempdat1a;
```



Q9. Drop all indexes on a given table.

CREATE TABLE Employee4s (

Query:

```
ID INT PRIMARY KEY,

Name VARCHAR(100),

Department VARCHAR(100),

Salary FLOAT
);

CREATE INDEX idx_name ON Employee4s(Name);

CREATE INDEX idx_dept ON Employee4s(Department);

DROP INDEX idx_name ON Employee4s;

DROP INDEX idx_dept ON Employee4s;
```

Q10.Write a query to add a new column DOB of type DATE to the Employees table. Query: Create the Employees table CREATE TABLE Employ2ees (ID INT PRIMARY KEY, Name VARCHAR(100), Department VARCHAR(100), Salary FLOAT); INSERT INTO Employ2ees (ID, Name, Department, Salary) VALUES (1, 'Riyas', 'IT', 50000), (2, 'Fazil', 'HR', 60000), (3, 'Kailash', 'Finance', 70000); ALTER TABLE Employ2ees ADD DOB DATE; **UPDATE Employ2ees** SET DOB = '1995-06-15' WHERE ID = 1;

UPDATE Employ2ees

WHERE ID = 2;

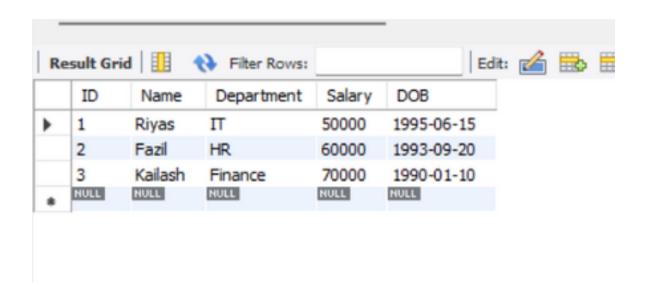
UPDATE Employ2ees

SET DOB = '1993-09-20'

SET DOB = '1990-01-10'

WHERE ID = 3;

select * from Employ2ees



Q11. Modify the data type of the column Salary from INT to FLOAT.

Query:

```
CREATE TABLE Empl (
ID INT PRIMARY KEY,
Name VARCHAR(100),
Department VARCHAR(100),
Salary INT
);
```

INSERT INTO Empl (ID, Name, Department, Salary) VALUES

(1, 'Riyas', 'IT', 50000),

(2, 'Fazil', 'HR', 60000),

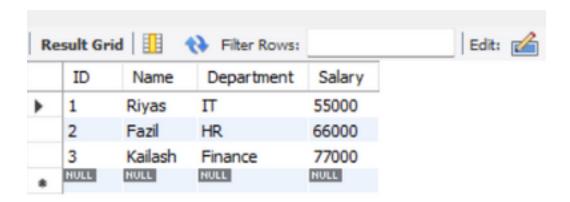
(3, 'Kailash', 'Finance', 70000);

```
modify Salary FLOAT;
```

```
UPDATE Empl
```

SET Salary = Salary * 1.5;

SELECT * FROM Empl;



Q12.Rename a column in a table from fullname to name.

Query:

```
CREATE TABLE Empl1 (
ID INT PRIMARY KEY,
realname VARCHAR(100),
fullname VARCHAR(100),
Salary INT
);
```

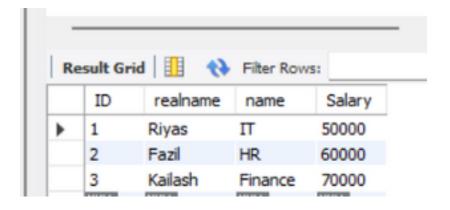
INSERT INTO Empl1 (ID, realname, fullname, Salary) VALUES

```
(1, 'Riyas', 'IT', 50000),
```

(2, 'Fazil', 'HR', 60000),

(3, 'Kailash', 'Finance', 70000);

select * from Empl1;



Q13. Rename the table Customers to Clients.

Query:

create database yesterday;

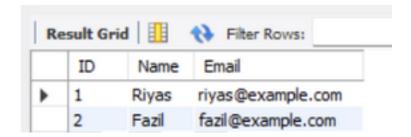
```
CREATE TABLE Customers (
ID INT PRIMARY KEY,
Name VARCHAR(100),
Email VARCHAR(100)
);
```

INSERT INTO Customers (ID, Name, Email) VALUES

- (1, 'Riyas', 'riyas@example.com'),
- (2, 'Fazil', 'fazil@example.com');

RENAME TABLE Customers TO Clients;

SELECT * FROM Clients;



Q14. Truncate a table and insert one row back using INSERT.

Query:

```
CREATE TABLE Employees (
ID INT PRIMARY KEY,
Name VARCHAR(100),
Department VARCHAR(50),
Salary FLOAT
);
```

INSERT INTO Employees (ID, Name, Department, Salary) VALUES

(1, 'Riyas', 'IT', 50000),

(2, 'Fazil', 'HR', 55000),

(3, 'Kailash', 'Finance', 60000);

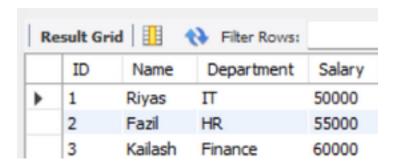
SELECT * FROM Employees;

TRUNCATE TABLE Employees;

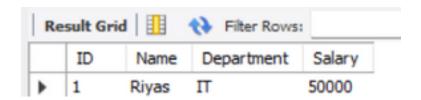
INSERT INTO Employees (ID, Name, Department, Salary)

VALUES (1, 'Riyas', 'IT', 50000);

SELECT * FROM Employees;



After inserting row:



Q15. Update the department of all employees from 'Sales' to 'Marketing'.

Query:

```
CREATE TABLE Employeees (
ID INT,
Name VARCHAR(100),
Department VARCHAR(100),
Salary FLOAT
);
```

INSERT INTO Employeees (ID, Name, Department, Salary) VALUES (1, 'Riyas', 'Sales', 45000),

- (2, 'Fazil', 'Sales', 50000),
- (3, 'Kailash', 'IT', 60000),
- (4, 'Dilip', 'HR', 55000),
- (5, 'Bharanee', 'Sales', 47000);

UPDATE Employeees

SET Department = 'Marketing'

WHERE Department = 'Sales';

SELECT * FROM Employeees;

