Database Administration and Management LAB

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221008

LAB TASK 1:
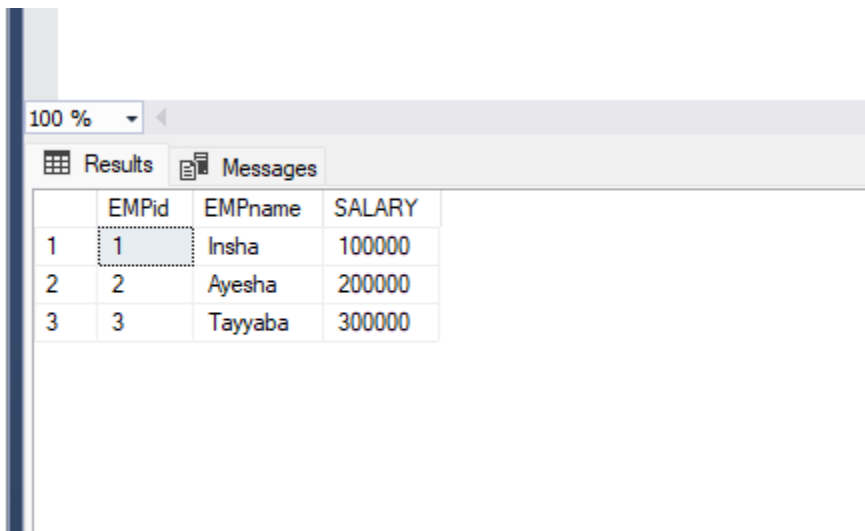
CREATE DATABASE lab;

USE lab;

CREATE TABLE EMPLOYEE(EMPid int, EMPname VARCHAR(50),SALARY int);

INSERT INTO EMPLOYEE(EMPid,EMPname,SALARY) VALUES (1,'Insha',100000);

INSERT INTO EMPLOYEE(EMPid,EMPname,SALARY) VALUES (2,'Ayesha',200000);

INSERT INTO EMPLOYEE(EMPid,EMPname,SALARY) VALUES (3,'Tayyaba',300000);

SELECT * FROM EMPLOYEE;

	EMPid	EMPname	SALARY
1	1	Insha	100000
2	2	Ayesha	200000
3	3	Tayyaba	300000

LAB TASK 2:

USE lab2;

CREATE TABLE STUDENT(studentid int PRIMARY KEY, STUDENTname VARCHAR(50),DEPT VARCHAR(50), GPA DECIMAL(2,1));

INSERT INTO STUDENT(studentid,STUDENTname,DEPT,GPA) VALUES (1,'Insha','DataScience',3.5);
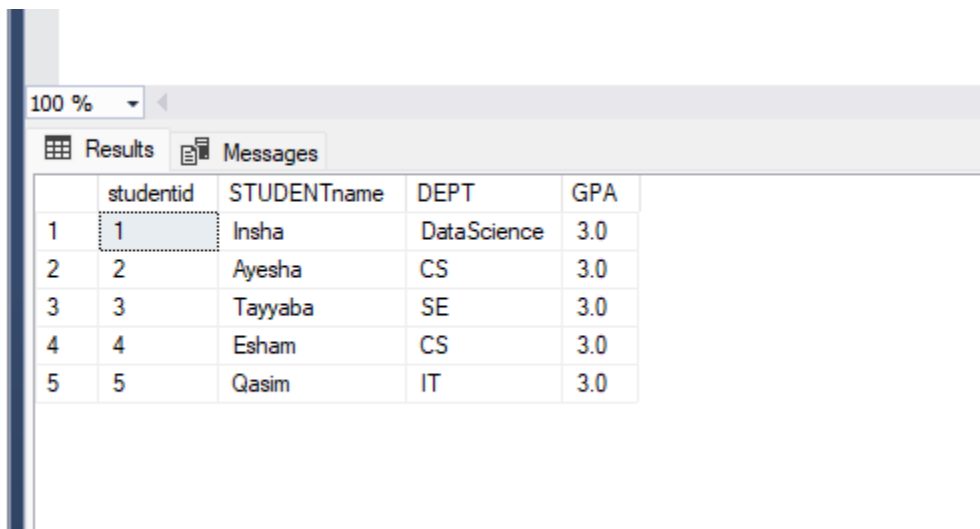
INSERT INTO STUDENT(studentid,STUDENTname,DEPT,GPA) VALUES (2,'Ayesha','CS',3.6);

INSERT INTO STUDENT(studentid,STUDENTname,DEPT,GPA) VALUES (3,'Tayyaba','SE',3.7);

INSERT INTO STUDENT(studentid,STUDENTname,DEPT,GPA) VALUES (4,'Esham','CS',3.5);

INSERT INTO STUDENT(studentid,STUDENTname,DEPT,GPA) VALUES (5,'Qasim','IT',3.6);

SELECT * FROM STUDENT;

	studentid	STUDENTname	DEPT	GPA
1	1	Insha	DataScience	3.0
2	2	Ayesha	CS	3.0
3	3	Tayyaba	SE	3.0
4	4	Esham	CS	3.0
5	5	Qasim	IT	3.0

```sql
ALTER TABLE STUDENT ALTER COLUMN GPA DECIMAL(3,2);


SELECT * FROM STUDENT;

ALTER TABLE STUDENT ALTER COLUMN GPA FLOAT;

SELECT * FROM STUDENT;


ALTER TABLE STUDENT ALTER COLUMN GPA DECIMAL(2,1);

SELECT * FROM STUDENT;

ALTER TABLE STUDENT ALTER COLUMN GPA DECIMAL(2,1);

SELECT * FROM STUDENT;

ALTER TABLE STUDENT ALTER COLUMN GPA DECIMAL(10,4);

SELECT * FROM STUDENT;

SELECT * FROM STUDENT WHERE GPA>3.5;

UPDATE STUDENT SET GPA=3.7 WHERE studentid=4;


SELECT * FROM STUDENT;
```

```sql
CREATE TABLE STUDENT( studentid int PRIMARY KEY, STUDENTname VARCHAR(50),DEPT VARCHAR(50), GPA DECIMAL(3,1);

INSERT INTO STUDENT(studentid,STUDENTname,DEPT,GPA) VALUES (1,'Insha','DataScience',3.5);
INSERT INTO STUDENT(studentid,STUDENTname,DEPT,GPA) VALUES (2,'Ayesha','CS',3.6);
INSERT INTO STUDENT(studentid,STUDENTname,DEPT,GPA) VALUES (3,'Tayyaba','SE',3.7);
INSERT INTO STUDENT(studentid,STUDENTname,DEPT,GPA) VALUES (4,'Esham','CS',3.5);
INSERT INTO STUDENT(studentid,STUDENTname,DEPT,GPA) VALUES (5,'Qasim','IT',3.6);

SELECT * FROM STUDENT;

ALTER TABLE STUDENT ALTER COLUMN GPA DECIMAL(3,2);

SELECT * FROM STUDENT;
ALTER TABLE STUDENT ALTER COLUMN GPA FLOAT;
SELECT * FROM STUDENT;
```

100 %

▦ Results | ▤ Messages

	studentid	STUDENTname	DEPT	GPA
1	1	Insha	DataScience	3.0000
2	2	Ayesha	CS	3.0000
3	3	Tayyaba	SE	3.0000
4	4	Esham	CS	3.7000
5	5	Qasim	IT	3.0000