LAB ASSIGNMENT DATABASE LAB

DUE DATE: 04/04/2022 TKM COLLEGE OF ENGINEERING

GROUP 6

- 1. Consider the database for a banking enterprise. Write the queries for the below questions.
 - (i) Create the followingtables

Table	Attributes	
Customer	cid,cname,loc,sex,dob	
Bank_brn	bcode,bloc,bsate	
Deposit	Dacno,dtype,ddate,damt	
Loan	Lacno,ltype,ldate,lamt	
Accounts_in	Bcode,cid	
Depositor	cid,dacno	
Borrower	cid,lacno	

- (ii) Include necessary constraints.
- (iii) Tables are created under the database 'bank'
- (iv) Display all the tables in bank database
- (v) Describe the structure of all tables
- (vi) Delete tables

Script:

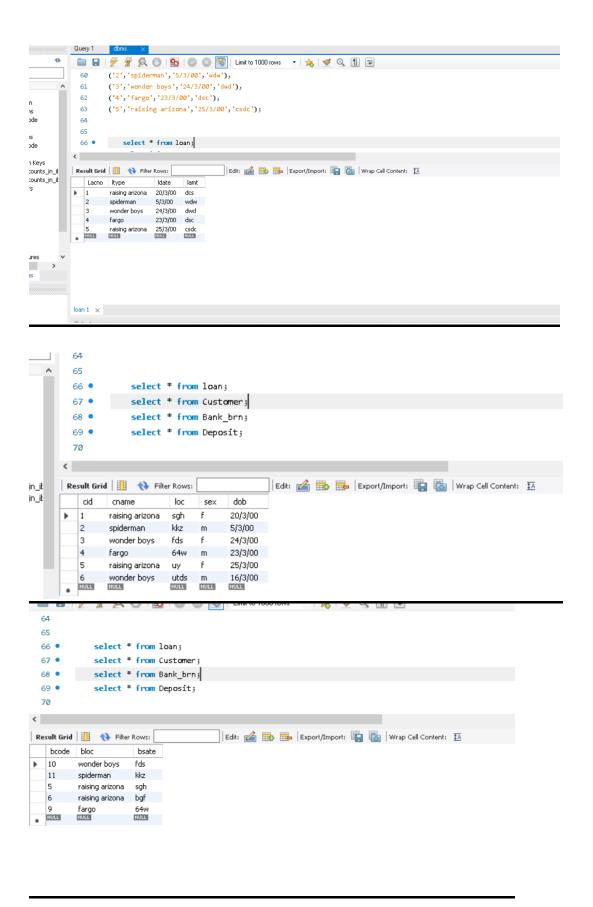
```
create database bank;
use bank;
CREATE TABLE Customer(
   cid varchar(255)NOT NULL,
   cname varchar(255)NOT NULL,
   loc varchar(255)NOT NULL,
   sex varchar(255)NOT NULL,
   dob varchar(255)NOT NULL,
   primary key(cid)

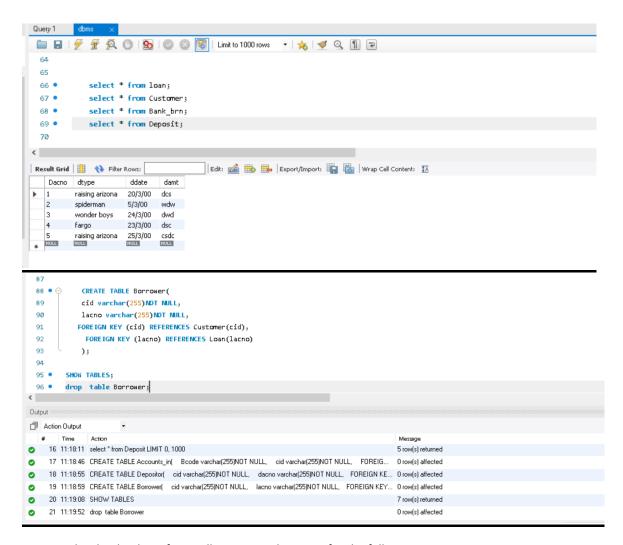
);
INSERT INTO Customer(cid,cname,loc,sex,dob)
```

```
VALUES ('1', 'raising arizona', 'sgh', 'f', '20/3/00'),
('2', 'spiderman', 'kkz', 'm', '5/3/00'),
('3','wonder boys','fds','f','24/3/00'),
('4','fargo','64w','m','23/3/00'),
('5', 'raising arizona', 'uy', 'f', '25/3/00'),
('6','wonder boys','utds','m','16/3/00');
CREATE TABLE Bank_brn(
  bcode varchar(255)NOT NULL,
  bloc varchar(255)NOT NULL,
  bsate varchar(255)NOT NULL,
  primary key(bcode)
  );
   INSERT INTO Bank_brn(bcode,bloc,bsate)
VALUES ('5', 'raising arizona', 'sgh'),
('11','spiderman','kkz'),
('10','wonder boys','fds'),
('9','fargo','64w'),
('6', 'raising arizona', 'bgf');
CREATE TABLE Deposit(
  Dacno varchar(255)NOT NULL,
  dtype varchar(255)NOT NULL,
  ddate varchar(255)NOT NULL,
  damt varchar(255)NOT NULL,
  primary key(Dacno)
  );
   INSERT INTO Deposit(Dacno,dtype,ddate,damt)
VALUES ('1', 'raising arizona', '20/3/00', 'dcs'),
('2', 'spiderman', '5/3/00', 'wdw'),
('3','wonder boys','24/3/00','dwd'),
('4', 'fargo', '23/3/00', 'dsc'),
('5', 'raising arizona', '25/3/00', 'csdc');
CREATE TABLE Loan(
 Lacno varchar(255)NOT NULL,
 ltype varchar(255)NOT NULL,
 ldate varchar(255)NOT NULL,
  lamt varchar(255)NOT NULL,
  primary key(Lacno)
  );
```

```
INSERT INTO Loan(Lacno,ltype,ldate,lamt)
VALUES ('1','raising arizona','20/3/00','dcs'),
('2', 'spiderman', '5/3/00', 'wdw'),
('3','wonder boys','24/3/00','dwd'),
('4', 'fargo', '23/3/00', 'dsc'),
('5', 'raising arizona', '25/3/00', 'csdc');
CREATE TABLE Accounts in(
  Bcode varchar(255)NOT NULL,
  cid varchar(255)NOT NULL,
  FOREIGN KEY (cid) REFERENCES Customer(cid),
  FOREIGN KEY (Bcode) REFERENCES Bank_brn(Bcode)
  );
CREATE TABLE Depositor(
  cid varchar(255)NOT NULL,
  dacno varchar(255)NOT NULL,
 FOREIGN KEY (cid) REFERENCES Customer(cid),
  FOREIGN KEY (dacno) REFERENCES Deposit(dacno)
  );
  CREATE TABLE Borrower(
  cid varchar(255)NOT NULL,
  lacno varchar(255)NOT NULL,
 FOREIGN KEY (cid) REFERENCES Customer(cid),
  FOREIGN KEY (lacno) REFERENCES Loan(lacno)
  );
  select * from loan;
  select * from Customer;
  select * from Bank brn;
  select * from Deposit;
SHOW TABLES:
drop table Borrower;
Result: output is obtained successfully.
```

output:





2. Consider the database for a college. Write the query for the following.

- Insert at least 5 tuples into each table.
- List the details of students in the ascending order of date of birth
- Display the details of students from computer department
- List the faculties in the descending order of salary
- Display the total number of students in each department
- Display the total number of faculties in each department with salary greater than 25000

Script:

create database co;

use co;

create table student1(

```
rollno int,
name varchar(20),
dept varchar(20),
dob date
);
INSERT INTO student1(rollno,name,dob,dept) values('101','Amit','2000-03-12','computer');
INSERT INTO student1(rollno,name,dob,dept) values('102','Suji','2000-08-02','computer');
INSERT INTO student1(rollno,name,dob,dept) values('103','Anu','1999-12-5','engineering');
INSERT INTO student1(rollno,name,dob,dept) values('104','Karthi','1998-09-24','maths');
INSERT INTO student1(rollno,name,dob,dept) values('105','Kevin','2001-06-30','engineering');
create table faculty(
f id int,
name varchar(20),
dept varchar(20),
salary int
);
INSERT INTO faculty(f_id,name,dept,salary) values('121','Arya','computer',20000);
INSERT INTO faculty(f id,name,dept,salary) values('122','Anoop','computer',15000);
INSERT INTO faculty(f_id,name,dept,salary) values('123','Manju','engineering',45000);
INSERT INTO faculty(f_id,name,dept,salary) values('124','Shiji','maths',20000);
INSERT INTO faculty(f_id,name,dept,salary) values('125','Sabitha','engineering',35000);
select * from student1 order by dob asc;
```

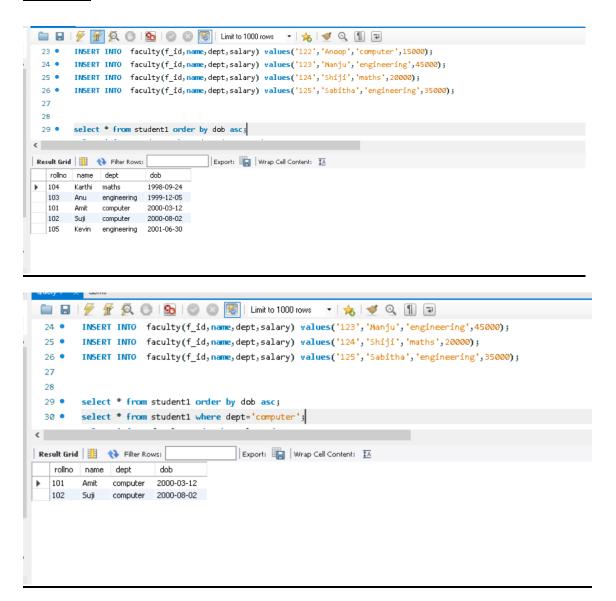
select * from student1 where dept='computer'; select * from faculty order by salary desc;

select count(rollno),dept from student1 group by dept;

select count(f_id),dept,salary from faculty where salary>25000;

Result: output is obtained successfully.

output:





MANDATORY ASSIGNMENT FOR ALL GROUPS:

Queries using aggregate functions(COUNT,AVG,MIN,MAX,SUM),Group by,Order by,Having.

E ID	E NAME	AGE	SALARY
E_ID	E_NAME	AGE	SALARI
101	ANU	22	9000
102	Shane	29	8000
103	Rohan	34	6000
104	Scott	44	10000
105	Tiger	35	8000
106	Alex	27	7000
107	Abhi	29	8000

- (i) Create Employee table containing all Records.
- (ii) Count number of employee names from employee table.
- (iii) Find the Maximum age from employee table
- (iv) Find the Minimum age from employee table.
- (v) Display the Sum of age employee table.
- (vi) Display the Average of age from Employee table
- (vii) Create a View for age in employee table
- (viii) Display views
- (ix) Find grouped salaries of employees.
- (x) Find salaries of employee in Ascending Order
- (xi) Find salaries of employee in Descending Order

Script:

);

```
CREATE DATABASE EMPLOYEE;
USE EMPLOYEE;
CREATE TABLE Employee(
E_ID INT(25),
E_NAME VARCHAR(25),
AGE INT(10),
SALARY FLOAT(10),
PRIMARY KEY(E_ID)
```

INSERT INTO Employee VALUES (101,"ANU",22,9000);

INSERT INTO Employee VALUES (102,"SHANE",29,8000);

INSERT INTO Employee VALUES (103, "ROHAN", 34,6000);

INSERT INTO Employee VALUES (104,"SCOTT",44,10000);

INSERT INTO Employee VALUES (105,"TIGER",35,8000);

INSERT INTO Employee VALUES (106,"ALEX",27,7000);

INSERT INTO Employee VALUES (107,"ABHI",29,8000);

SELECT * FROM Employee;

SELECT COUNT(*) FROM Employee;

SELECT MAX(AGE) FROM Employee;

SELECT MIN(AGE) FROM Employee;

SELECT SUM(AGE) FROM Employee;

SELECT AVG(AGE) FROM Employee;

CREATE VIEW E_AGE AS

SELECT E_NAME, AGE FROM Employee;

SELECT * FROM E_AGE;

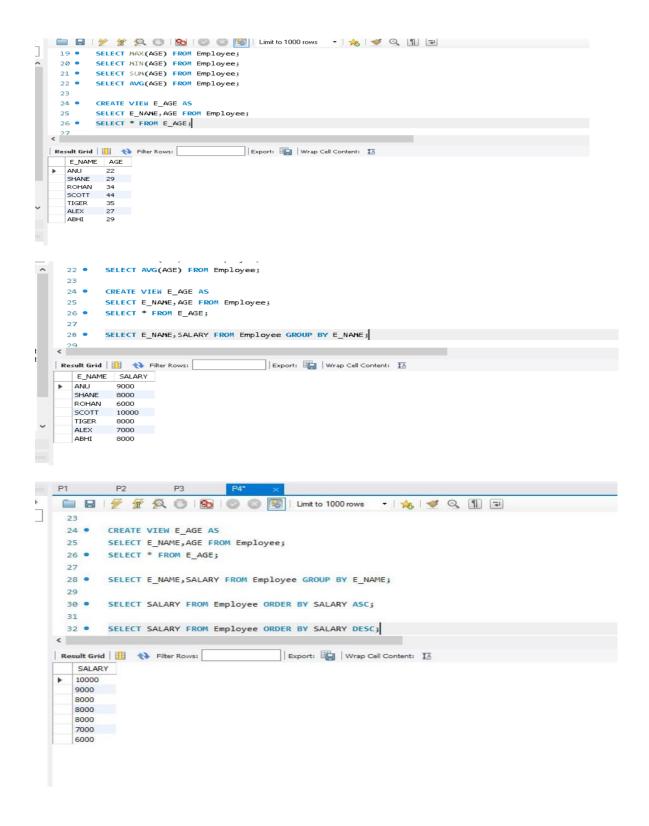
SELECT E_NAME, SALARY FROM Employee GROUP BY E_NAME;

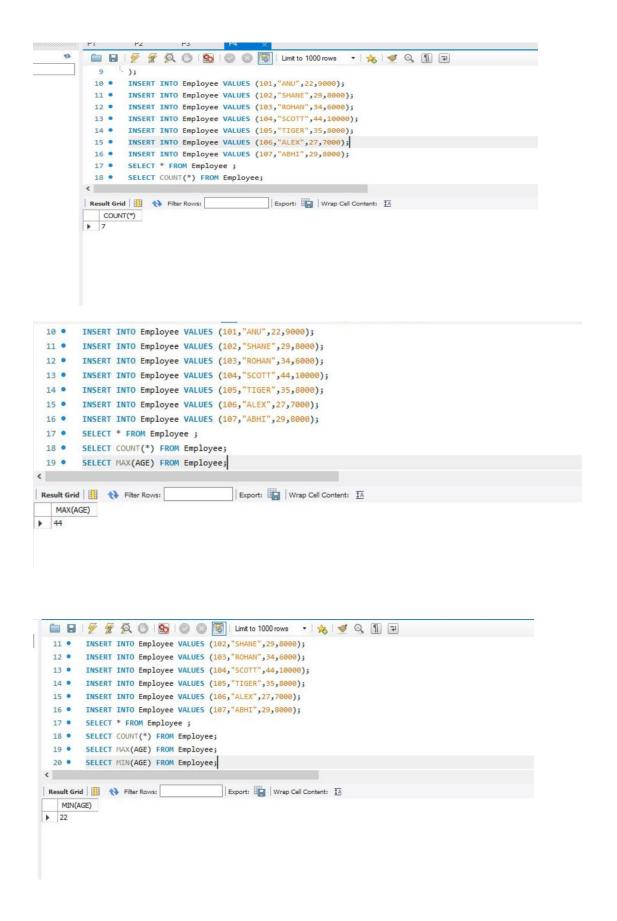
SELECT SALARY FROM Employee ORDER BY SALARY ASC;

SELECT SALARY FROM Employee ORDER BY SALARY DESC;

Result: output is obtained successfully.

output:





```
INSERT INTO Employee VALUES (104, "SCOTT", 44, 10000);

14 • INSERT INTO Employee VALUES (105, "TIGER", 35, 8000);

15 • INSERT INTO Employee VALUES (106, "ALEX", 27, 7000);

16 • INSERT INTO Employee VALUES (107, "ABHI", 29, 8000);

17 • SELECT * FROM Employee;

18 • SELECT COUNT(*) FROM Employee;

19 • SELECT MAX(AGE) FROM Employee;

20 • SELECT MIN(AGE) FROM Employee;

21 • SELECT SUM(AGE) FROM Employee;

Result Grid 
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