DBMS EXPERIMENTS

AMOGH GARG-2020UCO1688 EXPERIMENT-5

CREATING TABLES:

create table employee(person_name varchar(20) primary key,street varchar(20),city varchar(10));

create table company(company_name varchar(10) primary key,city varchar(10)); create table works(person_name varchar(20) not null,company_name varchar(10) not null,salary int,foreign key(person_name) references employee(person_name),foreign key(company_name) references company(company_name));

create table manages(person_name varchar(20) not null,manager_name varchar(10),foreign key(person_name) references employee(person_name));

INSERTING VALUES:

insert into employee values ('Amogh Garg','6th Street','Delhi'),('Akshat Barwal','7th Street','Mumbai'),('Harkeerat','8th Street','Kolkata');

insert into company values ('Samba Bank','Delhi'),('NCB Bank','Bangalore'); insert into works values ('Amogh Garg','Samba Bank',8500),('Akshat Barwal','NCB Bank',11000),('Harkeerat','NCB Bank',9000);

insert into manages values('Amogh Garg','Akshat Barwal'),('Akshat Barwal','Harkeerat'),('Harkeerat','Amogh Garg');

MariaDB [question_5]> select * from employee;		
person_name	street	city
	6th Street	Mumbai Delhi Kolkata
3 rows in set (0.001 sec)		
MariaDB [question_5]> select * from company;		
company_name	city	
NCB Bank Samba Bank	Bangalore Delhi	
2 rows in set (0.001 sec)		
MariaDB [question_5]> select * from works;		
person_name	company_name	salary
Akshat Barwal	Samba Bank NCB Bank NCB Bank	8500 11000 9000
3 rows in set (0.001 sec)		
MariaDB [question_5]> select * from manages;		
person_name	manager_name	Ţ
Akshat Barwal	Akshat Bar Harkeerat Amogh Garg	
3 rows in set (0.001 sec)		

- Table employee-Primary key is person_name
 Table company-Primary key is company_name
 Table works-Foreign key is person_name and company_name
 Table manages-Foreign key is person_name
- 2. alter table employee add column email varchar(20) null;

3. select m.manager_name from manages m,works w where m.person_name=w.person_name and w.company_name='Samba Bank' and w.company_name='NCB Bank';

4. select e.person_name,e.street,e.city from employee e,works w where e.person_name=w.person_name and w.company_name='NCB Bank' and w.salary>10000;

5. select e.person_name from employee e,works w,company c where e.person_name=w.person_name and w.company_name=c.company_name and e.city=c.city;

6. select max(salary),company_name from works group by company_name; select min(salary),company_name from works group by company_name; select avg(salary),company_name from works group by company_name;

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MariaDB [question_5]> select max(salary),company_name from works group by company_name;

| max(salary) | company_name |
| 11000 | NCB Bank |
| 8500 | Samba Bank |
| 2 rows in set (0.001 sec)

MariaDB [question_5]> select min(salary),company_name from works group by company_name;
| min(salary) | company_name |
| 9000 | NCB Bank |
| 8500 | Samba Bank |
| 2 rows in set (0.003 sec)

MariaDB [question_5]> select avg(salary),company_name from works group by company_name;
| avg(salary) | company_name |
| 10000.0000 | NCB Bank |
| 8500.0000 | Samba Bank |
| 8500.0000 | Samba Bank |
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7. select company_name from works order by salary desc limit 1;