ASSIGNMENT – 10 (DBMS LAB)

* **PROBLEM:**

Consider the following schema of project database

PROJECT (proj\_id, proj\_name, project\_manager\_id) EMPLOYEE (emp id, emp\_name, age, joining\_date) ASSIGNED (proj\_id, emp id)

Provide SQL statements for the following queries:

1. Obtain details of employees working on the project named SYSTEM.

2. Get details of employees working on both projects P200 and P300.

3. Find the employee ids who are working on all projects.

4. Find the employee ids who are assigned to only one project.

5. Find the employee ids who are assigned to more than one project.

6.Find the project ids which have the maximum & minimum no of employees assigned.

7. Find the project ids which has the highest average age of employees assigned.

8. Find the project manager who has the maximum no of projects.

* **PROGRAM:**

create table project(proj\_id varchar2(38),proj\_name varchar2(38),proj\_manager\_id varchar2(38),primary key(proj\_id));

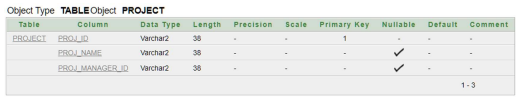
* **OUTPUT:**

Table created.

* **PROGRAM:**

describe project;

* **OUTPUT:**



* **PROGRAM:**

create table employee(emp\_id varchar2(38),emp\_name varchar2(38),age number(38),joining\_date date,primary key(emp\_id));

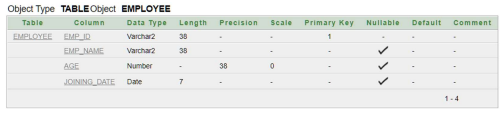
* **OUTPUT:**

Table created.

* **PROGRAM:**

describe project;

* **OUTPUT:**



* **PROGRAM:**

create table assigned(proj\_id varchar2(38),emp\_id varchar2(38),foreign key(proj\_id) references project(proj\_id),foreign key(emp\_id) references employee(emp\_id));

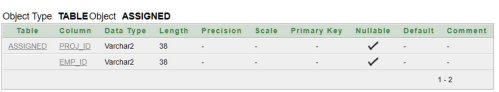
* **OUTPUT:**

Table created.

* **PROGRAM:**

describe project;

* **OUTPUT:**



* **PROGRAM:**

BEGIN  
insert into project values('P200','SYSTEM5','PM200');  
insert into project values('P201','PSE3','PM201');  
insert into project values('P203','PABC','PM203');  
insert into project values('P204','PDEF','PM204');  
insert into project values('P205','SYSTEM','PM205');  
insert into project values('P206','PXYZ','PM206');  
insert into project values('P207','PMNP','PM207');  
insert into project values('P208','PORS','PM208');  
insert into project values('P209','PMAH','PM209');  
insert into project values('P210','PBCD','PM210');  
insert into project values('P211','PDEG','PM211');  
insert into project values('P212','PEGA','PM212');  
insert into project values('P213','PSYSP','PM213');  
insert into project values('P214','PAZC','PM214');  
insert into project values('P300','PAKZ','PM300');  
END

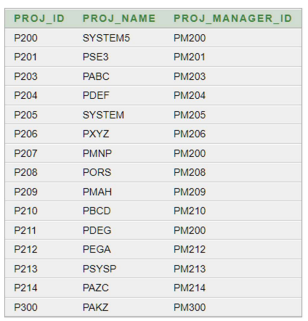
* **OUTPUT:**

Statement processed.

* **PROGRAM:**

select \* from project;

* **OUTPUT:**



* **PROGRAM:**

BEGIN  
insert into employe values('E101','Suraj Kumar Das','32','02-NOV-1999');  
insert into employe values('E102','Koushik Jana','33','03-DEC-1998');  
insert into employe values('E103','Sitangshu Roy','31','10-NOV-1997');  
insert into employe values('E104','Rohit Singh','34','28-DEC-1995');  
insert into employe values('E105','Mala Sen','30','28-DEC-2021');  
insert into employe values('E106','Ripon Sur','31','22-DEC-2020');  
insert into employe values('E107','Sayan Sen','32','12-AUG-2019');  
insert into employe values('E108','Nitesh Singh','30','13-OCT-2019');  
insert into employe values('E109','Manimala Dutta','34','14-AUG-2018');  
insert into employe values('E110','Krishna Dasgupta','33','23-OCT-1996');  
insert into employe values('E111','Liton Pal','32','24-NOV-1995');  
insert into employe values('E112','Gourab Das','35','21-JUL-1996');  
insert into employe values('E113','Sabuj Pal','34','12-SEP-1995');  
insert into employe values('E114','Mrinal Sen','33','12-AUG-2012');  
insert into employe values('E115','Sathi Barma3','32','11-JAN-2019');  
END

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* Bottom of Form
* **OUTPUT:** .

Statement processed.

* **PROGRAM:**

select \* from employee;

* **OUTPUT:** .



* **PROGRAM:**

begin

insert into assigned values('P200','E101');

insert into assigned values('P200','E102');

insert into assigned values('P201','E101');

insert into assigned values('P201','E107');

insert into assigned values('P203','E101');

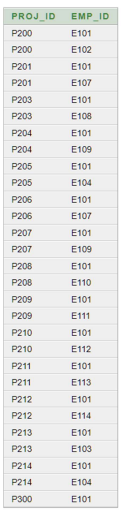
insert into assigned values('P203','E108');

insert into assigned values('P204','E101');

insert into assigned values('P204','E109');

insert into assigned values('P205','E101');

insert into assigned values('P205','E104');

insert into assigned values('P206','E101');

insert into assigned values('P206','E107');

insert into assigned values('P207','E101');

insert into assigned values('P207','E109');

insert into assigned values('P208','E101');

insert into assigned values('P208','E110');

insert into assigned values('P209','E101');

insert into assigned values('P209','E111');

insert into assigned values('P210','E101');

insert into assigned values('P210','E112');

insert into assigned values('P211','E101');

insert into assigned values('P211','E113');

insert into assigned values('P212','E101');

insert into assigned values('P212','E114');

insert into assigned values('P213','E101');

insert into assigned values('P213','E103');

insert into assigned values('P214','E101');

insert into assigned values('P214','E104');

insert into assigned values('P300','E101');

end

* **OUTPUT:** .

Statement processed.

* **PROGRAM:**

select \* from assigned;

* **OUTPUT:** .
* **PROGRAM:**

select \* from employee where emp\_id in(select emp\_id from assigned where proj\_id=(select proj\_id from project where proj\_name='SYSTEM'));

* **OUTPUT:** .



* **PROGRAM:**

select \* from employee where emp\_id in(select emp\_id from assigned where proj\_id='P200' and emp\_id in(select emp\_id from assigned where proj\_id='P300'));

* **OUTPUT:** .



* **PROGRAM:**

select emp\_id,count(proj\_id) as no\_of\_project from assigned group by emp\_id having count(proj\_id)=(select count(proj\_id) from project);

* **OUTPUT:** .



* **PROGRAM:**

select emp\_id from assigned GROUP BY emp\_id having count(proj\_id)=1;

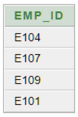
* **OUTPUT:** .



* **PROGRAM:**

select emp\_id from assigned GROUP BY emp\_id having count(proj\_id)>1;

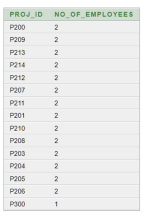
* **OUTPUT:** .



* **PROGRAM:**

select proj\_id,count(\*) as no\_of\_employees from employee join assigned on employee.emp\_id=assigned.emp\_id group by proj\_id order by count(\*) desc;

* **OUTPUT:** .



* **PROGRAM:**

select proj\_manager\_id,count(\*) as maximam\_no\_of\_project from project group by proj\_manager\_id having count(proj\_id)>1;

* **OUTPUT:** .

