

```
use e4;
```

```
drop table if exists Employee;  
drop table if exists Project;  
drop table if exists WorksOn;  
create table Employee(  
    eid int,  
    name varchar(20),  
    age int,  
    salary int,  
    Primary Key (eid)  
);
```

```
create table Project(  
    pid int,  
    pname varchar(20),  
    budget int,  
    Primary Key (pid)  
);
```

```
create table WorksOn(  
    eid int,  
    pid int,  
    since date,  
    Primary Key (eid,pid),  
    Foreign Key (eid) references Employee(eid),  
    Foreign Key (pid) references Project(pid)  
);
```

```
insert into Employee values(1,'Anita',30,40000);
```

```
insert into Employee values(2,'Anant',28,80000);
```

```
insert into Employee values(3,'Michelle',32,60000);
```

```
insert into Employee values(4,'Michael',30,90000);
```

```
insert into Employee values(5,'Patricia',40,80000);
```

```
insert into Employee values(6,'Patrick',41,100000);
```

```
insert into Project values(101,'SuperSurveil',1000000) ;
```

```
insert into Project values(102,'HelpAllPeople',10000) ;
```

```
insert into Project values(103,'BernieMemeGeneration',500000) ;
```

```
insert into Project values(104,'CatMemeGeneration',2000000) ;
```

```
insert into WorksOn values(6,101,'2021-01-22') ;
```

```
insert into WorksOn values(1,101,'2021-01-30') ;
```

```
insert into WorksOn values(1,102,'2021-01-30') ;
```

```
insert into WorksOn values(2,101,'2021-01-15') ;
insert into WorksOn values(3,102,'2020-05-15') ;
insert into WorksOn values(4,102,'2020-08-15') ;
insert into WorksOn values(5,103,'2021-01-22') ;
insert into WorksOn values(6,103,'2021-01-22') ;
```

```
select * from Employee ;
select * from Project ;
select * from WorksOn ;
```

```
Select S.eid, S.name from Employee S, WorksOn W
  Where S.eid = W.eid and W.pid = 101;
```

```
Select S.eid, S.name from Employee S, WorksOn W
  Where S.eid = W.eid and W.pid = 103;
```

```
Select S.eid, S.name from Employee S, WorksOn W
  Where S.eid = W.eid and W.pid = 101
```

Union

```
Select S.eid, S.name from Employee S, WorksOn W
  Where S.eid = W.eid and W.pid = 103;
```

```
Select S.eid, S.name from Employee S, WorksOn W1
  where S.eid = W1.eid and W1.pid = 101 and W1.eid in (
    select W2.eid from WorksOn W2
      where W2.pid = 103);
```

```
Select S.eid, S.name from Employee S, WorksOn W1
  where S.eid = W1.eid and W1.pid = 101 and W1.eid not in (
    select W2.eid from WorksOn W2
      where W2.pid = 103);
```

Attaching screenshot here too, in case multiple files on canvas is difficult or something

```
+-----+-----+
| eid | name |
+-----+-----+
|  1  | Anita |
|  2  | Anant |
|  6  | Patrick |
|  5  | Patricia |
+-----+-----+
4 rows in set (0.00 sec)
```

```
+-----+-----+
| eid | name |
+-----+-----+
|  6  | Patrick |
+-----+-----+
1 row in set (0.00 sec)
```

```
+-----+-----+
| eid | name |
+-----+-----+
|  1  | Anita |
|  2  | Anant |
+-----+-----+
2 rows in set (0.00 sec)
```