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## Experiment: 2

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**Subject Name: PL/SQL LAB** **Subject Code: 23CAP-502**
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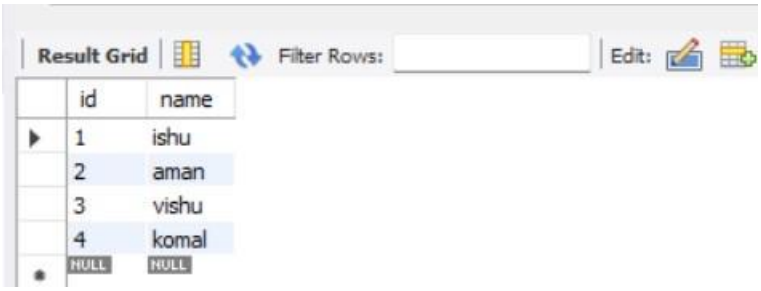
**Aim/Overview of the practical:** Joins

**Concept used:** SQL

**Experiment:-**You are given three tables: Students, Friends and Packages. Students contains two columns: ID and Name. Friends contains two columns: ID and Friend_ID (ID of the ONLY best friend). Packages contains two columns: ID and Salary (offered salary in $ thousands per month).

```
create table student(
id int primary key,
name varchar(50)

);
  insert into student values(1,"ishu"),(2,"aman"),(3,"vishu"),(4,"komal");
```



Result Grid | Filter Rows: | Edit:

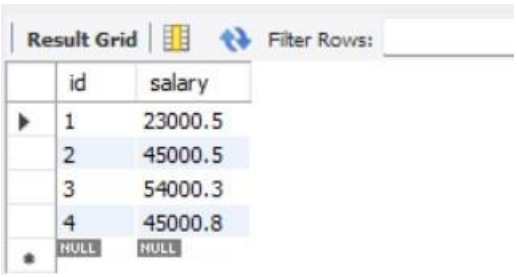
| id | name |
|---|---|
| 1 | ishu |
| 2 | aman |
| 3 | vishu |
| 4 | komal |
| NULL | NULL |

```
create table friendss(   id int primary key,   friend_id
varchar(30)
 );
insert into friendss values(1,2),(2,3),(3,4),(4,1);
```

Result Grid | Filter Rows: | Edit:

| id | friend_id |
|---|---|
| 1 | 2 |
| 2 | 3 |
| 3 | 4 |
| 4 | 1 |
| NULL | NULL |

```
create table package( id int primary key, salary
float
);
insert into package values(1,23000.5),(2,45000.50),(3,54000.30),(4,45000.75);
```

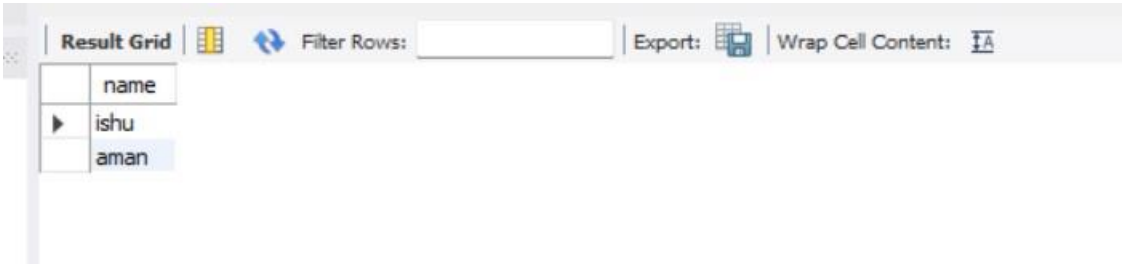


Result Grid | Filter Rows:

| id | salary |
|---|---|
| 1 | 23000.5 |
| 2 | 45000.5 |
| 3 | 54000.3 |
| 4 | 45000.8 |
| NULL | NULL |

Write a query to output the names of those students whose best friends got offered a higher salary than them. Names must be ordered by the salary amount offered to the best friends. It is guaranteed that no two students got same salary offer.

```
SELECT
   s.name
FROM
   student        s
JOIN
   package  p1  ON  s.id  =  p1.id
JOIN
   friendss  f  ON  s.id  =  f.id
JOIN
   package p2 ON f.friend_id = p2.id
WHERE
   p2.salary > p1.salary
ORDER BY p2.salary;
```




**LEARNING OUTCOMES:-**

**1**. We have learned the use of joins.

**2.**we have learn about many sql commands like where and order commands.