

# Day 5

## **Problem Statement:**

Write a query to output the names of those students whose friends got offered a higher salary than them.

Names must be ordered by the salary amount offered to the friends.

It is guaranteed that no two students got same salary offer.

## **Solution Code:**

```
/*Creating a student_Salary database and using the database*/
create database student_Salary;
use student_Salary;
/*Creating tables Students, Packages, Friends and inseting values in them*/
create table Students(ID int, Name varchar(100));
insert into Students(ID,Name)values(1,"Ashley"),(2,"Samantha"),(3,"Julia"),(4,"Scarlet");
create table Packages(ID int, Salary float);
insert into Packages(ID,Salary) values(1,15.20),(2,10.06),(3,11.55),(4,12.12);
Create table Friends(ID int, Friends_ID int);
insert into Friends(ID,Friends_ID) values(1,2),(2,3),(3,4),(4,1);
/*Checking the tables*/
select * from students;
select * from Packages;
select * from Friends;
/*Write a query to output the names of those students whose friends got offered a higher salary than them.
Names must be ordered by the salary amount offered to the friends.
It is guaranteed that no two students got same salary offer.*/

select Name from
(select S1.ID, S1.Name as Name, P1.Salary, F1.Friends_ID,S2.Name as Friends_name, P2.Salary as Friends_Salary
from Students as S1
inner join Packages as P1 on S1.ID = P1.ID
inner join Friends F1 on F1.ID = S1.ID
inner join Students as S2 on F1.Friends_ID = S2.ID
inner join Packages as P2 on F1.Friends_ID = P2.ID
) AS T1
where T1.Friends_Salary > T1.Salary
order by T1.Friends_Salary
```

Screenshot of the Code:

MySQL Workbench

IVY Practice

File Edit View Query Database Server Tools Scripting Help

Navigation

Day\_5\_IVY\_Internship\_Rounak\_P...

Limit to 50000 rows

SCHEMAS

Filter objects

ipl

ivy\_sql\_internship

practice

sakila

student

student\_db1

student\_salary

Tables

friends

packages

students

Administration Schemas

Information

Table: friends

Columns:

ID

int

Friends\_ID

int

12 • select \* from students;

13 • select \* from Packages;

14 • select \* from Friends;

15 • /\*Write a query to output the names of those students whose friends got offered a higher salary than them.

16 Names must be ordered by the salary amount offered to the friends. It is guaranteed that no two students got same salary offer.\*/

17 • select Name from

18 (select S1.ID, S1.Name as Name, P1.Salary, F1.Friends\_ID,S2.Name as Friends\_name, P2.Salary as Friends\_Salary

19 from Students as S1

20 inner join Packages as P1 on S1.ID = P1.ID

21 inner join Friends F1 on F1.ID = S1.ID

22 inner join Students as S2 on F1.Friends\_ID = S2.ID

23 inner join Packages as P2 on F1.Friends\_ID = P2.ID

24 ) AS T1

25 where T1.Friends\_Salary > T1.Salary

26 order by T1.Friends\_Salary

27

28

Result Grid

Filter Rows

Export

Wrap Cell Content

Read Only

Result 15

Output

Name

Samantha

Julia

Scarlet