Experiment No. 1.3

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Branch: **MCA - CCD**   **Section/Group:** **MCD-1/ Grp B**
Semester: **I**   **Date of Performance:** **5th Oct 22**
Subject Name: **ADBMS Lab**   **Subject Code:** **22CAP-647**

1. **Task to be done:**

Given the following relation EMP and the predicates p1: SAL > 23000, p2: SAL < 23000

EMP relation
a) Perform a horizontal fragmentation of the table based on the given predicates.
b) Is this a correct fragmentation?
c) If the answer to (b) is no, explain why, and give the predicates that would correctly fragment the table.

ID	Name	Salary
1289	Guru	12000
8907	Siva	67050
7643	Shalini	51980
0988	Kavin	23000
6543	Surya	28760
0986	Kavitha	23000
2345	Anees	29999

EMP relation

2. **Code for experiment/practical:**

```
Create table Students (ID int, Name varchar(20), Salary int);
Insert into Students Values (1289, "Rishav", 16000);
Insert into Students Values (8907, "Lucky", 67050);
Insert into Students Values(7643, "Shivam", 51890);
Insert into Students Values(0988, "Rishant", 28659);
Insert into Students Values(6543, "Anurag", 29908);
Insert into Students Values(2345, "Tushar", 19000);
```

```
Insert into Students Values(6809, "Shika", 43007);
```

A.)

```
SELECT * FROM Students WHERE Salary > 23000
```

B.)

```
SELECT * FROM Students WHERE Salary < 23000
```

C.)

```
P1: Salary >= 23000, P2: Salary < 23000
or

P1: Salary > 23000, P2: Salary <= 23000
```

When we fragment the relation using the given predicates we end up excluding one tuple, which violates the completeness rule for correct fragmentation.

3. Result/Output/Writing Summary:

Students

ID	Name	Salary
1289	Rishav	16000
8907	Lucky	67050
7643	Shivam	51890
988	Rishant	28659
6543	Anurag	29908
2345	Tushar	19000
6809	Shika	43007

A.)

Output

ID	Name	Salary
8907	Lucky	67050
7643	Shivam	51890
988	Rishant	28659
6543	Anurag	29908
6809	Shika	43007

B.)

Output

ID	Name	Salary
1289	Rishav	16000
2345	Tushar	19000

Learning outcomes (What I have learned):

1. Learned about horizontal fragmentation.

Evaluation Grid:

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.	Demonstration and Performance		22

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