

Experiment 3

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Branch: BE CSE Section/Group: KRG-1-A

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Subject Name: ADBMS Subject Code: 23CSP-333

1. Aim:

Generate an employee relation with only one attribute i.e., EMP_ID. Then, find the max EMP ID, but excluding the duplicates.

2. Requirements (Hardware/Software):

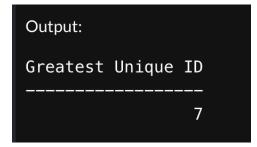
Microsoft SQL server

3. Procedure:

```
CREATE TABLE TBL_EMPLOYEE(
    EMP_ID INT
);
INSERT INTO TBL_EMPLOYEE VALUES (2),(4),(4),(6),(6),(7),(8),(8);

SELECT MAX(EMP_ID) as [Greatest Unique ID] FROM TBL_EMPLOYEE WHERE EMP_ID IN
(SELECT EMP_ID FROM TBL_EMPLOYEE GROUP BY EMP_ID HAVING COUNT(EMP_ID)=1);
```

4. Output:



5. Learning Outcome:

- Understand the role of sub-queries in simplifying complex SQL operations.
- Apply sub-queries in SELECT, WHERE, and FROM clauses to retrieve specific data.
- Utilize sub-queries for filtering, aggregation, and conditional logic.
- Analyze query performance implications when using sub-queries versus joins.