



## Experiment 3

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### 1. AIM

1. Basic Table Creation and Duplicate Handling:
  - Generate an Employee relation with a single attribute ID.
  - Retrieve the maximum ID value while excluding duplicates.
2. Product Sales Analysis:
  - Select products which have never been sold.
  - Calculate the total quantity sold for each respective product.

### 2. Tool Used

1. MS SQL Server
2. Data Grip

### 3. SQL Code

```
-- Easy Task
-- Generate employee relation with only 1 attribute ( ID )
-- Find the max id but excluding the duplicates

create table employees_tbl(
    e_id int
);

insert into employees_tbl values
(1),
(1),
(2),
(3),
(3),
(4),
(5),
(5),
(6),
(7),
(7);
```



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```
select max(a.e_id) as max_distinct_id from (select e_id,
count(e_id) as id_cnt from employees_tbl group by e_id) as a where
a.id_cnt = 1;
```

---- Task 2:

```
-- select product which has not been sold once
-- find the total quantity of sold for each respective product
```

```
CREATE TABLE TBL_PRODUCTS
(
    ID INT PRIMARY KEY IDENTITY,
    [NAME] NVARCHAR(50),
    [DESCRIPTION] NVARCHAR(250)
)
```

```
CREATE TABLE TBL_PRODUCTSALES
(
    ID INT PRIMARY KEY IDENTITY,
    PRODUCTID INT FOREIGN KEY REFERENCES TBL_PRODUCTS(ID),
    UNITPRICE INT,
    QUALITYSOLD INT
)
```

```
INSERT INTO TBL_PRODUCTS VALUES ('TV','52 INCH BLACK COLOR LCD
TV')
INSERT INTO TBL_PRODUCTS VALUES ('LAPTOP','VERY THIIN BLACK COLOR
ACER LAPTOP')
INSERT INTO TBL_PRODUCTS VALUES ('DESKTOP','HP HIGH PERFORMANCE
DESKTOP')
```

```
INSERT INTO TBL_PRODUCTSALES VALUES (3,450,5)
INSERT INTO TBL_PRODUCTSALES VALUES (2,250,7)
INSERT INTO TBL_PRODUCTSALES VALUES (3,450,4)
INSERT INTO TBL_PRODUCTSALES VALUES (3,450,9)
```

```
select * from TBL_PRODUCTS
select * from TBL_PRODUCTSALES
```

```
select * from TBL_PRODUCTS where TBL_PRODUCTS.ID not in (select
distinct PRODUCTID from TBL_PRODUCTSALES);
```



```
select Name, (select SUM(TBL_PRODUCTSALES.QUALITYSOLD) from  
TBL_PRODUCTSALES where PRODUCTID = TBL_PRODUCTS.ID) as [PRODUCT  
SALES] from TBL_PRODUCTS;
```

## 4. Output

max_distinct_id	
1	6

ID	NAME	DESCRIPTION
1	1 TV	52 INCH BLACK COLOR LCD TV

Name	[PRODUCT SALES]
1 TV	<null>
2 LAPTOP	7
3 DESKTOP	18