## **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

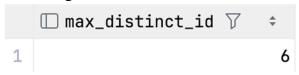
### 3. SQL Code

```
-- 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);
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,
     QUALTITYSOLD INT
)
INSERT INTO TBL PRODUCTS VALUES ('TV','52 INCH BLACK COLOR LCD TV')
INSERT INTO TBL PRODUCTS VALUES ('LAPTOP', 'VERY THIIN BLACK COLOR
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.QUALTITYSOLD) from
TBL PRODUCTSALES where PRODUCTID = TBL PRODUCTS.ID) as [PRODUCT
SALES] from TBL PRODUCTS;
```



# 4. Output



	□ ID ▽	\$	$\square$ NAME $ eg$ $\qquad$ $ eq$	$\square$ DESCRIPTION $ otag$	\$
1		1	TV	52 INCH BLACK COLOR LCD TV	

	$\square$ Name $ egreen$	\$ ☐ [PRODUCT SALES]	<b>?</b>
1	TV		<null></null>
2	LAPT0P		7
3	DESKTOP		18