



Experiment 3

Name: Tarun Aggarwal

UID: 23BCS80342

Branch: BE-CSE

Section/Group: KRG - 1A

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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;
```



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```
---- 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 THIN 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 |