

## ASSIGNMENT 7

Aim : Write following nested subqueries on DB

Problem Statement : Write the following nested subqueries

A] Set membership (in, not in)

- Get order details of products which are not from electronics and sports category
- Get the name and quantity of product which have either 10 or 20 or 30 quantities

B] Set comparison (<, >, <=, >=, <>)

- Get the product details whose product price is more than "Apple 7"
- Find the purchase order whose purchase amount is greater than maximum purchase amount EXISTS / NOT EXISTS, ANY, etc

Objective :

- To understand nested sub queries
- set membership (in, not in)
- set comparison (<, >, <=, >=, <>)

Theory : Types of Joins :-

a) Inner Join

select field1, field2, field3 from first\_table inner join second\_table on first\_table.keyfield = second\_table.foreign\_keyfield;

b) Left outer join

select employees.name, orders, product from employees left join orders on employees.eid = orders.cid;

c) Right outer join

Select field1, field2 from table1 right join table2 on  
table1.keyfield = table2.foreign-keyfield;

The SQL IN Operator

select col\_name(s) from table\_name where col\_name in  
(val1, val2, ...); or  
select col\_name(s) from table\_name where col\_name  
in (select statement);

IN operator's example

select \* from customers where country in  
( 'Germany', 'France', 'UK' );

Set Comparison

Operator	Description
=	Equal
<>	Not equal
>	Greater than
<	Less than
>=	Greater than or equal to
<=	Less than or equal to

Conclusion :

I understood to retrieve data from various database tables with the help of nested subqueries.