**Day 3**

**Problem Statement:**

write a sql query to report the id and names of customers who bought products “c”,

“b” but did not buy the product “a” since we want to recommend them buy this product.

return the result table ordered by customer\_id.

**Solution Code:**

/\*Using IVY internship database\*/

use ivy\_sql\_internship;

/\*Creating table Customer and Order\*/

create table Customer

(

Customer\_id int,

Customer\_Name varchar(100),

constraint customer\_primary\_key primary key (Customer\_id)

);

create table orders

(

order\_id int,

CustomerID int,

product\_name varchar(100),

constraint order\_primary\_key primary key(order\_id),

constraint order\_foreign\_key foreign key (CustomerID) references Customer(Customer\_id)

);

/\*inserting values in the tables\*/

insert into Customer(Customer\_id,Customer\_Name)

values (1,"Mary"),(2,"John"),(3,"Peter"),(4,"Lisa");

insert into orders(order\_id,CustomerID,product\_name)

values

(10,1,"A"),(20,1,"B"),(30,1,"D"),(40,1,"C"),

(50,2,"A"),(60,3,"A"),(70,3,"B"),(80,3,"D"),(90,4,"C")

;

/\*write an sql query to report the id and names of customers who bought products “c”,

“b” but did not buy the product “a” since we want to recommend them buy this product.

return the result table ordered by customer\_id. \*/

SELECT DISTINCT Customer\_id, Customer\_Name

FROM customer c

JOIN orders o

ON o.CustomerID = c.Customer\_id

WHERE customer\_id IN (SELECT CustomerID FROM orders WHERE product\_name = 'C')

AND customer\_id IN (SELECT CustomerID FROM orders WHERE product\_name = 'B')

AND customer\_id NOT IN (SELECT CustomerID FROM orders WHERE product\_name = 'A')

ORDER BY 1;

**Screenshot of the Code:**

