

# Assignment 7

Also use the following keywords in nested and subqueries  
(**EXISTS/NOT EXISTS, ANY, etc..**)

## 1. Set Membership (in, not in)

### a. Get order details of products which are not from books and wearables category

```
mysql> select cust_id,orders.order_id,category.name as
category_name,product.name as
pro_name,product.manufacturer,product.price as
unit_price,selects.quantity,selects.price from
orders,selects,product,category where
product.product_id=selects.product_id and
orders.order_id=selects.order_id and
product.cat_id=category.cat_id order by cust_id;
+-----+-----+-----+-----+-----+-----+-----+-----+
| cust_id | order_id | category_name | pro_name | manufacturer | unit_price | quantity | price |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 30 | 10 | Consumables | Pen | Trimax | 45 | 4 | 180 |
| 30 | 11 | Consumables | Pen | Lexi | 5 | 4 | 20 |
| 30 | 11 | Calculator | fx-991MS | Casio | 900 | 1 | 900 |
| 30 | 10 | Wearables | Workshop Apron | NOT PICT | 20 | 1 | 20 |
| 49 | 1 | Books | 200 Pages Notebook | Classmate | 70 | 4 | 280 |
| 49 | 1 | Consumables | Pen | Lexi | 5 | 14 | 70 |
| 49 | 5 | Consumables | Pen | Lexi | 5 | 2 | 10 |
| 49 | 5 | Calculator | fx-991MS | Casio | 900 | 1 | 900 |
| 50 | 6 | Books | 200 Pages Notebook | Classmate | 70 | 3 | 210 |
| 50 | 6 | Calculator | fx-991MS | Casio | 900 | 1 | 900 |
| 51 | 2 | Books | 200 Pages Notebook | Sundarban | 65 | 5 | 325 |
| 51 | 2 | Consumables | Pen | Trimax | 45 | 1 | 45 |
| 51 | 2 | Consumables | Pencil Box | Natraj | 25 | 4 | 100 |
| 51 | 2 | Wearables | Workshop Apron | PICT | 40 | 2 | 80 |
| 52 | 4 | Consumables | Pencil Box | Apsara | 30 | 7 | 210 |
| 52 | 4 | Calculator | fx-82MS | Casio | 500 | 1 | 500 |
| 53 | 8 | Books | 200 Pages Notebook | Classmate | 70 | 3 | 210 |
| 53 | 8 | Books | 200 Pages Notebook | Sundarban | 65 | 6 | 390 |
| 53 | 8 | Consumables | Pen | Lexi | 5 | 2 | 10 |
| 54 | 7 | Books | 200 Pages Notebook | Classmate | 70 | 3 | 210 |
| 55 | 3 | Books | 200 Pages Notebook | Sundarban | 65 | 6 | 390 |
| 55 | 1001 | Books | 200 Pages Notebook | Sundarban | 65 | 4 | 260 |
| 55 | 9 | Consumables | Pen | Trimax | 45 | 2 | 90 |
| 55 | 1001 | Consumables | Pen | Lexi | 5 | 8 | 40 |
| 55 | 3 | Wearables | Workshop Apron | NOT PICT | 20 | 1 | 20 |
| 55 | 9 | Wearables | Workshop Apron | NOT PICT | 20 | 1 | 20 |
| 60 | 12 | Consumables | Pencil Box | Apsara | 30 | 4 | 120 |
| 60 | 13 | Calculator | fx-82MS | Casio | 500 | 2 | 1000 |
| 60 | 13 | Wearables | Workshop Apron | NOT PICT | 20 | 1 | 20 |
+-----+-----+-----+-----+-----+-----+-----+-----+
29 rows in set (0.00 sec)
```

```
mysql> select cust_id,orders.order_id,category.name as
category_name,product.name as
pro_name,product.manufacturer,product.price as
unit_price,selects.quantity,selects.price from
orders,selects,product,category where
product.product_id=selects.product_id and
orders.order_id=selects.order_id and
product.cat_id=category.cat_id and category.name not in
("Books","Wearables") order by cust_id;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+
| cust_id | order_id | category_name | pro_name | manufacturer | unit_price | quantity | price |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 30 | 10 | Consumables | Pen | Trimax | 45 | 4 | 180 |
| 30 | 11 | Consumables | Pen | Lexi | 5 | 4 | 20 |
| 30 | 11 | Calculator | fx-991MS | Casio | 900 | 1 | 900 |
| 49 | 1 | Consumables | Pen | Lexi | 5 | 14 | 70 |
| 49 | 5 | Consumables | Pen | Lexi | 5 | 2 | 10 |
| 49 | 5 | Calculator | fx-991MS | Casio | 900 | 1 | 900 |
| 50 | 6 | Calculator | fx-991MS | Casio | 900 | 1 | 900 |
| 51 | 2 | Consumables | Pen | Trimax | 45 | 1 | 45 |
| 51 | 2 | Consumables | Pencil Box | Natraj | 25 | 4 | 100 |
| 52 | 4 | Consumables | Pencil Box | Apsara | 30 | 7 | 210 |
| 52 | 4 | Calculator | fx-82MS | Casio | 500 | 1 | 500 |
| 53 | 8 | Consumables | Pen | Lexi | 5 | 2 | 10 |
| 55 | 9 | Consumables | Pen | Trimax | 45 | 2 | 90 |
| 55 | 1001 | Consumables | Pen | Lexi | 5 | 8 | 40 |
| 60 | 12 | Consumables | Pencil Box | Apsara | 30 | 4 | 120 |
| 60 | 13 | Calculator | fx-82MS | Casio | 500 | 2 | 1000 |
+-----+-----+-----+-----+-----+-----+-----+-----+
16 rows in set (0.00 sec)
```

## b. Get name and quantity of product which have either 5 or 7 or 10 quantities

```
mysql> select cust_id,orders.order_id,category.name as
category_name,product.name as
pro_name,product.manufacturer,product.price as
unit_price,selects.quantity,selects.price from
orders,selects,product,category where
product.product_id=selects.product_id and
orders.order_id=selects.order_id and
product.cat_id=category.cat_id and selects.quantity in (5,7,10)
order by cust_id;
+-----+-----+-----+-----+-----+-----+-----+-----+
| cust_id | order_id | category_name | pro_name | manufacturer | unit_price | quantity | price |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 51 | 2 | Books | 200 Pages Notebook | Sundarban | 65 | 5 | 325 |
| 52 | 4 | Consumables | Pencil Box | Apsara | 30 | 7 | 210 |
+-----+-----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

## 2. Set Comparison (<, >, <=, >=, <some, >=some, <all, etc..)

### a. Get the product details whose product price is more than “Trimax Pen”

```
mysql> select @price1 := price from product where name="Pen" and
manufacturer="Trimax";
+-----+
| @price1 := price |
+-----+
| 45 |
+-----+
1 row in set, 1 warning (0.00 sec)
```

```
mysql> select cust_id,orders.order_id,category.name as
category_name,product.name as
```

```

pro_name,product.manufacturer,product.price as
unit_price,selects.quantity,selects.price from
orders,selects,product,category where
product.product_id=selects.product_id and
orders.order_id=selects.order_id and
product.cat_id=category.cat_id and product.price>@price1 order by
cust_id;
+-----+-----+-----+-----+-----+-----+-----+
| cust_id | order_id | category_name | pro_name      | manufacturer | unit_price | quantity | price |
+-----+-----+-----+-----+-----+-----+-----+
|    30   |     11   | Calculator   | fx-991MS    | Casio       |      900  |      1   |  900  |
|    49   |     1     | Books        | 200 Pages Notebook | Classmate  |      70   |      4   | 280   |
|    49   |     5     | Calculator   | fx-991MS    | Casio       |      900  |      1   |  900  |
|    50   |     6     | Books        | 200 Pages Notebook | Classmate  |      70   |      3   | 210   |
|    50   |     6     | Calculator   | fx-991MS    | Casio       |      900  |      1   |  900  |
|    51   |     2     | Books        | 200 Pages Notebook | Sundarban  |      65   |      5   | 325   |
|    52   |     4     | Calculator   | fx-82MS     | Casio       |      500  |      1   | 500   |
|    53   |     8     | Books        | 200 Pages Notebook | Classmate  |      70   |      3   | 210   |
|    53   |     8     | Books        | 200 Pages Notebook | Sundarban  |      65   |      6   | 390   |
|    54   |     7     | Books        | 200 Pages Notebook | Classmate  |      70   |      3   | 210   |
|    55   |     3     | Books        | 200 Pages Notebook | Sundarban  |      65   |      6   | 390   |
|    55   |  1001   | Books        | 200 Pages Notebook | Sundarban  |      65   |      4   | 260   |
|    60   |     13   | Calculator   | fx-82MS     | Casio       |      500  |      2   | 1000  |
+-----+-----+-----+-----+-----+-----+-----+

```

13 rows in set (0.00 sec)

## b. Find the purchase order whose product amount is greater than the maximum purchase amount

```

mysql> select @maxprice := max(price) from product;
+-----+
| @maxprice := max(price) |
+-----+
|          900           |
+-----+
1 row in set, 1 warning (0.00 sec)

```

```

mysql> select cust_id,orders.order_id,category.name as
category_name,product.name as
pro_name,product.manufacturer,product.price as
unit_price,selects.quantity,selects.price from
orders,selects,product,category where
product.product_id=selects.product_id and
orders.order_id=selects.order_id and
product.cat_id=category.cat_id and selects.price>@maxprice order
by cust_id;
+-----+-----+-----+-----+-----+-----+-----+
| cust_id | order_id | category_name | pro_name      | manufacturer | unit_price | quantity | price |
+-----+-----+-----+-----+-----+-----+-----+
|      60  |     13   | Calculator   | fx-82MS     | Casio       |      500  |      2   | 1000  |
+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

```