

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)