Task #1

Practice DQL Commands

1. SELECT:

```
mysql> select database();
+-----+
| database() |
+-----+
| Northwind |
+-----+
1 row in set (0.00 sec)
```

2. WHERE:

```
mysql> select * from Category Where mod(categoryId,2)=0;

| categoryId | categoryName | description | picture |
| 2 | Condiments | Sweet and savory sauces, relishes, spreads, and seasonings | NULL |
| 4 | Dairy Products | Cheeses | NULL |
| 6 | Meat/Poultry | Prepared meats | NULL |
| 8 | Seafood | Seaweed and fish | NULL |
4 rows in set (0.00 sec)
```

3. ORDER BY:

```
mysql> select * from Category order by categoryId desc;

| categoryId | categoryName | description | picture |
| 8 | Seafood | Seaweed and fish | NULL |
| 7 | Produce | Dried fruit and bean curd | NULL |
| 6 | Meat/Poultry | Prepared meats | NULL |
| 5 | Grains/Cereals | Breads, crackers, pasta, and cereal | NULL |
| 4 | Dairy Products | Cheeses | NULL |
| 3 | Confections | Desserts, candies, and sweet breads | NULL |
| 2 | Condiments | Sweet and savory sauces, relishes, spreads, and seasonings | NULL |
| 1 | Beverages | Soft drinks, coffees, teas, beers, and ales | NULL |
| 8 rows in set (0.00 sec)
```

4. DISTINCT:

5. ISNULL() Function:

5. Column Aliases:

- 6. PREDICATES: A predicate is an expression that simply evaluate to be true, false, or unknown. Predicates are usually used in WHERE and HAVING clauses. Also at any other points where a boolean value needs to be generated. Common predicates are:
 - Comparison
 - Like
 - Between AND
 - IN
 - EXISTS
 - ISNULL()

7. BETWEEN AND:

```
mysql> select * from Category where categoryId between 3 and 5;

| categoryId | categoryName | description | picture |
| 3 | Confections | Desserts, candies, and sweet breads | NULL |
| 4 | Dairy Products | Cheeses | NULL |
| 5 | Grains/Cereals | Breads, crackers, pasta, and cereal | NULL |
3 rows in set (0.00 sec)
```

8. IN:

9. LIKE:

```
mysql> select * from Category where categoryName like 'C%s';

| categoryId | categoryName | description | picture |

| 2 | Condiments | Sweet and savory sauces, relishes, spreads, and seasonings | NULL |

| 3 | Confections | Desserts, candies, and sweet breads | NULL |

2 rows in set (0.00 sec)
```

10. Top n Clause: Top n Clause is used to get top n rows in MSSQL but in MYSQL we have LIMIT clause to limit no of ouput rows

```
mysql> select * from Category limit 5;

| categoryId | categoryName | description | picture |
| 1 | Beverages | Soft drinks, coffees, teas, beers, and ales | NULL |
| 2 | Condiments | Sweet and savory sauces, relishes, spreads, and seasonings | NULL |
| 3 | Confections | Desserts, candies, and sweet breads | NULL |
| 4 | Dairy Products | Cheeses | NULL |
| 5 | Grains/Cereals | Breads, crackers, pasta, and cereal | NULL |
| 5 rows in set (0.00 sec)
```

- 11. Set Operators: Set operators are used to join results of two or more SELECT statements.
- 12. Union: It shows records from both selects and removes duplicate from the result.

```
select * from CustomerChina UNION select * from CustomerPak;
```

13. Union All: It shows records from both selects and contains duplicates from both results.

select * from CustomerChina UNION ALL select * from CustomerPak;

14. Intersect: It shows common records from both selects.

select * from CustomerChina INTERSECT select * from CustomerPak;

15. Except: It shows records from first select which are not in the second select.

select * from CustomerPak EXCEPT select * from CustomerChina;