

TO FIND NTH MAX & NTH MIN

SYNTAX:

```
SELECT E1.SAL  
FROM EMP E1  
WHERE N-1 IN (SELECT COUNT (DISTINCT E2.SAL)  
               FROM EMP E2  
               WHERE E1.SAL < E2.SAL);
```

- WAQTD 3RD MAXIMUM SALARY

| <u>E1.SAL</u> | <u>E2.SAL</u> |
|---------------|---------------|
| 1000 | 1000 |
| 3000 | 3000 |
| 2000 | 2000 |
| 3000 | 3000 |
| 2000 | 2000 |
| 4000 | 4000 |
| 5000 | 5000 |

```
SELECT E1.SAL  
FROM EMP E1  
WHERE (SELECT COUNT (DISTINCT E2.SAL)  
               FROM EMP E2  
               WHERE E1.SAL < E2.SAL) IN 2;
```

- WAQTD 2ND, 4TH, 5TH 7TH MAX SALARY.

```
SELECT E1.SAL  
FROM EMP E1  
WHERE (SELECT COUNT (DISTINCT E2.SAL)  
      FROM EMP E2  
     WHERE E1.SAL<E2.SAL) IN (1,3,4,6);
```

TO FIND NTH MINIMUM

SYNTAX:

```
SELECT E1.SAL  
FROM EMP E1  
WHERE (SELECT COUNT (DISTINCT E2.SAL)  
      FROM EMP E2  
     WHERE E1.SAL > E2.SAL) IN N-1;
```

- WAQTD TOP 5 MINIMUM SALARIES.

```
SELECT E1.SAL  
FROM EMP E1  
WHERE (SELECT COUNT (DISTINCT E2.SAL)  
      FROM EMP E2  
     WHERE E1.SAL > E2.SAL) IN (0, 1, 2, 3, 4);
```

DDL

This statement is used to construct an object into the database & deals with that structure of object/entity/table.

We have 5 statements

1. CREATE
2. RENAME
3. ALTER
4. TRUNCATE
5. DROP

CREATE

“It is used to create/build a structure of table/object.”

How to create table:

- Name of the table (tables cannot have the same names).
- Number of columns.
- Names of the columns.
- Assign datatypes for the columns.
- Assign constraints [NOT MANDATORY]

Syntax to create table

```
CREATE TABLE Table_Name(  
    Column_Name1 datatype constraint_type ,  
    Column_Name2 datatype constraint_type ,  
    Column_Name3 datatype constraint_type ,  
    .  
    .  
    Column_NameN datatype constraint_type  
) ;
```

EXAMPLE:

```
CREATE TABLE CUSTOMER
(
    CID NUMBER(5) PRIMARY KEY,
    CNAME VARCHAR(20) NOT NULL,
    CNO NUMBER(10) NOT NULL UNIQUE CHECK(LENGTH(CNO)=10),
    ADDRESS VARCHAR(50)
);
```

TO DESCRIBE THE TABLE

```
DESC TABLE_NAME;
```

RENAME

“IT IS USED TO CHANGE THE NAME OF THE OBJECT/ENTITY/TABLE.”

SYNTAX: RENAME EXISTING_TAB_NAME TO NEW_TABLE_NAME;

TRUNCATE

“IT IS USED TO REMOVE ALL THE RECORDS FROM THE TABLE PERMANENTLY.”

SYNTAX: TRUNCATE TABLE TABLE_NAME;