

### Create A table

```
CREATE TABLE TABLENAME ( COLUMN1 DATATYPE (SIZE),  
COLUMN2 DATATYPE (SIZE), COLUMN3 DATATYPE (SIZE));
```

### Create Table Using Constrains

```
CREATE TABLE TABLENAME ( COLUMN1 DATATYPE (SIZE)  
NOT NULL , COLUMN2 DATATYPE (SIZE), COLUMN3 DATATYPE  
(SIZE));
```

```
CREATE TABLE TABLENAME ( COLUMN1 DATATYPE (SIZE)  
UNIQUE, COLUMN2 DATATYPE (SIZE), COLUMN3 DATATYPE  
(SIZE));
```

```
CREATE TABLE TABLENAME1 ( COLUMN1 DATATYPE (SIZE),  
COLUMN2 DATATYPE (SIZE), COLUMN3 DATATYPE (SIZE),  
PRIMARY KEY(COLUMN1));
```

```
CREATE TABLE TABLENAME2 ( COLUMN1 DATATYPE (SIZE),  
COLUMN2 DATATYPE (SIZE), COLUMN3 DATATYPE (SIZE) ,  
FOREIGN KEY(COLUMN1) REFERENCES TABLENAME1(COLU-  
MN1));
```

### Insert Data/ Row to a table

```
INSERT INTO TABLENAME VALUES (FIRST VALUE, SECOND  
VALUE, THIRD VALUE);
```

```
INSERT INTO TABLENAME (COLUMN1, COLUMN3 ) VALUES (  
VALUE FOR COLUMN1, VALUE FOR COLUMN2);
```

### Describe a Table Structure

```
DESC TABLENAME;
```

### Delete Table Data

```
DELETE FROM TABLENAME;
```

```
DELETE FROM TABLENAME WHERE COLUMN1='VALUE';
```

```
DELETE FROM TABLENAME WHERE COLUMN2='VALUE'  
AND/OR COLUMN3='VALUE'
```

```
TRUNCATE TABLE TABLENAME;
```

```
DROP TABLE TABLENAME;
```

### Ordering Data

```
SELECT * FROM TABLENAME ORDER BY COLUMN1 ASC;
```

```
SELECT * FROM TABLENAME ORDER BY COLUMN1 DESC;
```

### Select 2nd Max Salary from Employee

```
SELECT MAX(SALARY) FROM EMPLOYEE WHERE SALARY NOT  
IN (SELECT MAX(SALARY)FROM EMPLOYEE)
```

### Select Nth Lowest salary from Employee

```
SELECT MAX(SALARY) FROM (SELECT DISTINCT SALARY  
FROM EMPLOYEE ORDER BY SALAY ASC ) WHERE ROWNUM  
<= N;
```

### Select 2nd Min Salary from Employee

```
SELECT MIN(SALARY) FROM EMPLOYEE WHERE SALARY NOT  
INT (SELECT MIN(SALARY) FROM EMPLOYEE);
```

### Select Nth highest Salary

```
SELECT MIN(SALARY) FROM (SELECT DISTINCT SALARY  
FROM EMPLOYEE ORDER BY SALARY DESC) WHERE  
ROWNUM <= N;
```

### Printing a Table

```
SELECT * FROM TABLENAME;
```

```
SELECT DISTINCT COLUMN2 FROM TABLENAME;
```

### BY USING OPERATORS

```
SELECT COLUMN1, COLUMN3 FROM TABLENAME;
```

```
SELECT COLUMN1, COLUMN2 FROM TABLENAME WHERE  
COLUMN2='VALUE';
```

```
SELECT COLUMN1, COLUMN2 FROM TABLENAME WHERE  
COLUMN3<'VALUE';
```

```
SELECT COLUMN1, COLUMN2 FROM TABLENAME WHERE  
COLUMN3>'VALUE';
```

```
SELECT COLUMN1, COLUMN2 FROM TABLENAME WHERE  
COLUMN3<='VALUE';
```

```
SELECT COLUMN1, COLUMN2 FROM TABLENAME WHERE  
COLUMN3>='VALUE';
```

```
SELECT COLUMN1, COLUMN2 FROM TABLENAME WHERE  
COLUMN3<>'VALUE';
```

```
SELECT COLUMN1, COLUMN2 FROM TABLENAME WHERE  
COLUMN3='VALUE' OR COLUMN2='VALUE';
```

### Printing a Table (cont)

```
SELECT COLUMN1, COLUMN2 FROM TABLENAME WHERE  
COLUMN3='VALUE' AND COLUMN2='VALUE';
```

```
SELECT COLUMN1, COLUMN2 FROM TABLENAME WHERE  
COLUMN2 BETWEEN 100 AND 200;
```

```
SELECT COLUMN1, COLUMN2 FROM TABLENAME WHERE  
COLUMN3 IN (8,15,17,15);
```

```
SELECT COLUMN1, COLUMN2 FROM TABLENAME WHERE  
COLUMN2 LIKE '%SP';
```

```
SELECT COLUMN1, COLUMN2 FROM TABLENAME WHERE  
COLUMN2 NOT LIKE '%SP';
```

### Alter Table

```
ALTER TABLE TABLNAME ADD COLUMN4 DATATYPE (SIZE);
```

```
ALTER TABLE TABLENAME MODIFY COLUMN1 DATATYPE  
(SIZE);
```

```
ALTER TABLE TABLENAME RENAME COLUMN COLUMN2 TO  
COLUMNXYZ;
```

```
ALTER TABLE TABLENAME RENAME TO TABLENAME1;
```

### Update Table

```
UPDATE TABLENAME SET COLUMN1='VALUE' WHERE  
COLUMN2='VALUE';
```

### Alias

```
SELECT COLUMN2 AS NOTCOLUMN2 FROM TABLENAME
```

```
SELECT * FROM TABLENAME NOTTABLENAME;
```

```
SELECT COLUMN3 FROM TABLENAME AS XYZCOLUMN;
```

### Aggregate Functions

```
SELECT SUM(COLUMN2) FROM TABLENAME;
```

```
SELECT AVG(COLUMN2) FROM TABLENAME;
```

```
SELECT MIN(COLUMN2) FROM TABLENAME;
```

```
SELECT MAX(COLUMN2) FROM TABLENAME;
```

```
SELECT COUNT(COLUMN2) FROM TABLENAME;
```

```
SELECT COUNT(DISTINCT COLUMN2) FROM TABLENAME;
```

### SQL Joins

```
SELECT * FROM TABLENAME INNER JOIN TABLENAME2 ON  
TABLENAME.COLUMN1 = TABLENAME2.COLUMN1;
```

```
SELECT * FROM TABLENAME LEFT JOIN TABLENAME2 ON  
TABLENAME.COLUMN1 = TABLENAME2.COLUMN1;
```

```
SELECT * FROM TABLENAME RIGHT JOIN TABLENAME2 ON  
TABLENAME.COLUMN1 = TABLENAME2.COLUMN1;
```

```
SELECT * FROM TABLENAME FULL JOIN TABLENAME2 ON  
TABLENAME.COLUMN1 = TABLENAME2.COLUMN1;
```



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