Introduction to Oracle SQL PLUS

Create Table, Introduction to data type, Property of table, Insertion, Display Table, Truncate, Delete, Drop, Display list of Table

CREATE TABLE

CREATE TABLE table_name
(column1 datatype [NULL | NOT NULL], column2 datatype [NULL | NOT NULL], ...columnn datatype [NULL | NOT NULL]);

```
SQL> create table supplier(name varchar (20), age number(3);

Table created.
```

Data type

- Character Data types: varchar, varchar2 (use varchar2)
- Number Data type: number, number(p,s)
- Float Data type: float(n)
- Date: date

Property: desc/describe table_name;

```
SQL> desc supplier;
 Name                                              Null?    Type
 ------------------------------------------------- -------- ----------------------------
 NAME                                                       VARCHAR2(20)
 AGE                                                        NUMBER(3)

SQL> describe supplier;
 Name                                              Null?    Type
 ------------------------------------------------- -------- ----------------------------
 NAME                                                       VARCHAR2(20)
 AGE                                                        NUMBER(3)
```

Data insertion:

INSERT INTO table_name (column1, column2, ... column_n)
VALUES (expression1, expression2, ... expression_n);

```
SQL> insert into supplier(name,age) values('ramesh',20);

1 row created.
```

DISPLAY:

select column1, column2, column3 from table name;

```
SQL> select * from supplier;

NAME                                AGE
------------------------- ----------
ramesh                              20
```

Some more insertion and display

```
SQL> insert into supplier(name,age) values('shree',35);

1 row created.

SQL> insert into supplier(name,age) values('suresh',40)
  2  ;

1 row created.
```

```
SQL> select * from supplier;

NAME                                          AGE
------------------------------- ----------
ramesh                                         20
shree                                          35
suresh                                         40
```

Display some columns

```
SQL> select name from supplier;

NAME
-----------------------------
ramesh
shree
suresh
shree
shree Prakash
```

Errors

```
SQL>  insert into supplier(name,age) values('shree,35);
ERROR:
ORA-01756: quoted string not properly terminated
```

```
SQL> insert into supplier(name,age) values('shree,35444);
ERROR:
ORA-01756: quoted string not properly terminated
```

Errors

```
SQL> insert into supplier(name,age) values('Rama lingam chaurasia aaaaaa',12);
insert into supplier(name,age) values('Rama lingam chaurasia aaaaaa',12)
                                                                      *

ERROR at line 1:
ORA-12899: value too large for column "SCOTT"."SUPPLIER"."NAME" (actual: 29,
maximum: 20)
```

```
SQL> insert into supplier(name,age) values('shree',3544444);
insert into supplier(name,age) values('shree',3544444)
                                                      *

ERROR at line 1:
ORA-01438: value larger than specified precision allowed for this column
```

Remove ALL the records from table:

truncate **table** **table_name**;

```
SQL> select * from supplier;

NAME                           AGE
---------------------- ----------
ramesh                          20
shree                           35
suresh                          40
shree                           35
shree Prakash                   20
```

```
SQL> truncate table supplier;

Table truncated.

SQL> select * from supplier;

no rows selected
```

Remove **single or multiple** records from table:

DELETE FROM table_name
WHERE conditions;

table_name: It specifies the table which you want to delete.

conditions: It specifies the conditions that must met for the records to be deleted.

```
SQL> select * from supplier;

NAME                              AGE
-------------------- ----------
ramesh                            20
suresh                            30

SQL> delete from supplier where age=20;

1 row deleted.

SQL> select * from supplier;

NAME                              AGE
-------------------- ----------
suresh                            30
```

drop table table_name;

```
SQL> drop table supplier;

Table dropped.

SQL> select * from supplier;
select * from supplier
              *
ERROR at line 1:
ORA-00942: table or view does not exist
```

select table_name from user_table

```
SQL> select table_name from user_tables;

TABLE_NAME
-------------------------------
DEPT
EMP
BONUS
SALGRADE
CUSTOMER1
CUSTOMER
PRICE
MONEY
CURRENCY
DATEE

10 rows selected.
```