SQL> CREATE TABLE EMP(EMPNO NUMBER(4) PRIMARY KEY,ENAME VARCHAR(25),JOB VARCHAR(12),SALARY NUMBER(10),COMMISSION NUMBER(7),DEPTNO NUMBER(2));

Table created.

SQL> DESC EMP;

Name Null? Type

----------------------------------------- -------- ----------------------------

EMPNO NOT NULL NUMBER(4)

ENAME VARCHAR2(25)

JOB VARCHAR2(12)

SALARY NUMBER(10)

COMMISSION NUMBER(7)

DEPTNO NUMBER(2)

SQL> INSERT INTO EMP VALUES(&EMPNO,'&ENAME','&JOB',&SALARY,&COMMISSION,&DEPTNO);

Enter value for empno: 1

Enter value for ename: TES

Enter value for job: TESTER

Enter value for salary: 100000

Enter value for commission: 23

Enter value for deptno: 56

old 1: INSERT INTO EMP VALUES(&EMPNO,'&ENAME','&JOB',&SALARY,&COMMISSION,&DEPTNO)

new 1: INSERT INTO EMP VALUES(1,'TES','TESTER',100000,23,56)

1 row created.

SQL> INSERT INTO EMP VALUES(&EMPNO,'&ENAME','&JOB',&SALARY,&COMMISSION,&DEPTNO);

Enter value for empno: 2

Enter value for ename: ANNA

Enter value for job: PROGRAMMER

Enter value for salary: 20000000

Enter value for commission: 24

Enter value for deptno: 57

old 1: INSERT INTO EMP VALUES(&EMPNO,'&ENAME','&JOB',&SALARY,&COMMISSION,&DEPTNO)

new 1: INSERT INTO EMP VALUES(2,'ANNA','PROGRAMMER',20000000,24,57)

1 row created.

SQL> INSERT INTO EMP VALUES(&EMPNO,'&ENAME','&JOB',&SALARY,&COMMISSION,&DEPTNO);

Enter value for empno: 3

Enter value for ename: SURYA

Enter value for job: DESIGNER

Enter value for salary: 3000000

Enter value for commission: 25

Enter value for deptno: 58

old 1: INSERT INTO EMP VALUES(&EMPNO,'&ENAME','&JOB',&SALARY,&COMMISSION,&DEPTNO)

new 1: INSERT INTO EMP VALUES(3,'SURYA','DESIGNER',3000000,25,58)

1 row created.

SQL> SELECT \* FROM EMP;

EMPNO ENAME JOB SALARY COMMISSION

---------- ------------------------- ------------ ---------- ----------

DEPTNO

----------

1 TES TESTER 100000 23

56

2 ANNA PROGRAMMER 20000000 24

57

3 SURYA DESIGNER 3000000 25

58

SQL> UPDATE EMP SET JOB='DATADESIGNER' WHERE EMPNO=3;

1 row updated.

SQL> SELECT \* FROM EMP;

EMPNO ENAME JOB SALARY COMMISSION

---------- ------------------------- ------------ ---------- ----------

DEPTNO

----------

1 TES TESTER 100000 23

56

2 ANNA PROGRAMMER 20000000 24

57

3 SURYA DATADESIGNER 3000000 25

58

SQL> INSERT INTO EMP VALUES(&EMPNO,'&ENAME','&JOB',&SALARY,&COMMISSION,&DEPTNO);

Enter value for empno: 4

Enter value for ename: ANJU

Enter value for job:

Enter value for salary: 50000

Enter value for commission: 26

Enter value for deptno: 59

old 1: INSERT INTO EMP VALUES(&EMPNO,'&ENAME','&JOB',&SALARY,&COMMISSION,&DEPTNO)

new 1: INSERT INTO EMP VALUES(4,'ANJU','',50000,26,59)

1 row created.

SQL> SELECT \* FROM EMP;

EMPNO ENAME JOB SALARY COMMISSION

---------- ------------------------- ------------ ---------- ----------

DEPTNO

----------

1 TES TESTER 100000 23

56

2 ANNA PROGRAMMER 20000000 24

57

3 SURYA DATADESIGNER 3000000 25

58

SQL> UPDATE EMP SET JOB='CLERK' WHERE EMPNO=3;

1 row updated.

SQL> SELECT \* FROM EMP;

EMPNO ENAME JOB SALARY COMMISSION

---------- ------------------------- ------------ ---------- ----------

DEPTNO

----------

1 TES TESTER 100000 23

56

2 ANNA PROGRAMMER 20000000 24

57

3 SURYA CLERK 3000000 25

58

SQL> ALTER TABLE EMP ADD(DOJ DATE);

Table altered.

SQL> SELECT \* FROM EMP;

EMPNO ENAME JOB SALARY COMMISSION

---------- ------------------------- ------------ ---------- ----------

DEPTNO DOJ

---------- ---------

1 TES TESTER 100000 23

56

2 ANNA PROGRAMMER 20000000 24

57

3 SURYA CLERK 3000000 25

58

SQL> DESC EMP;

Name Null? Type

----------------------------------------- -------- ----------------------------

EMPNO NOT NULL NUMBER(4)

ENAME VARCHAR2(25)

JOB VARCHAR2(12)

SALARY NUMBER(10)

COMMISSION NUMBER(7)

DEPTNO NUMBER(2)

DOJ DATE

SQL> UPDATE EMP SET DOJ='17-DEC-80';

3 rows updated.

SQL> SELECT \* FROM EMP;

EMPNO ENAME JOB SALARY COMMISSION

---------- ------------------------- ------------ ---------- ----------

DEPTNO DOJ

---------- ---------

1 TES TESTER 100000 23

56 17-DEC-80

2 ANNA PROGRAMMER 20000000 24

57 17-DEC-80

3 SURYA CLERK 3000000 25

58 17-DEC-80

SQL> SELECT DISTINCT JOB FROM EMP;

JOB

------------

CLERK

PROGRAMMER

TESTER

SQL\*Plus: Release 12.1.0.1.0 Production on Mon Feb 12 14:24:55 2024

Copyright (c) 1982, 2013, Oracle. All rights reserved.

Enter user-name: c23mca056@oracle

Enter password:

Last Successful login time: Fri Feb 09 2024 09:31:19 +05:30

Connected to:

Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 - 64bit Production

With the Partitioning, OLAP, Advanced Analytics and Real Application Testing options

SQL> CREATE TABLE EMP(EMPNO NUMBER(4) PRIMARY KEY,ENAME VARCHAR(25),JOB VARCHAR(12),SALARY NUMBER(10.2),COMMISSION NUMBER(7.2),DEPTNO NUMBER(2));

CREATE TABLE EMP(EMPNO NUMBER(4) PRIMARY KEY,ENAME VARCHAR(25),JOB VARCHAR(12),SALARY NUMBER(10.2),COMMISSION NUMBER(7.2),DEPTNO NUMBER(2))

\*

ERROR at line 1:

ORA-02017: integer value required

SQL> CREATE TABLE EMP(EMPNO NUMBER(4) PRIMARY KEY,ENAME VARCHAR(25),JOB VARCHAR(12),SALARY NUMBER(10),COMMISSION NUMBER(7.2),DEPTNO NUMBER(2));

CREATE TABLE EMP(EMPNO NUMBER(4) PRIMARY KEY,ENAME VARCHAR(25),JOB VARCHAR(12),SALARY NUMBER(10),COMMISSION NUMBER(7.2),DEPTNO NUMBER(2))

\*

ERROR at line 1:

ORA-02017: integer value required

SQL> CREATE TABLE EMP(EMPNO NUMBER(4) PRIMARY KEY,ENAME VARCHAR(25),JOB VARCHAR(12),SALARY NUMBER(10),COMMISSION NUMBER(7),DEPTNO NUMBER(2));

Table created.

SQL> DESC EMP;

Name Null? Type

----------------------------------------- -------- ----------------------------

EMPNO NOT NULL NUMBER(4)

ENAME VARCHAR2(25)

JOB VARCHAR2(12)

SALARY NUMBER(10)

COMMISSION NUMBER(7)

DEPTNO NUMBER(2)

SQL> INSERT INTO EMP VALUES(&EMPNO,'&ENAME','&JOB',&SALARY,&COMMISSION,&DEPTNO);

Enter value for empno: 1

Enter value for ename: TES

Enter value for job: TESTER

Enter value for salary: 100000

Enter value for commission: 23

Enter value for deptno: 56

old 1: INSERT INTO EMP VALUES(&EMPNO,'&ENAME','&JOB',&SALARY,&COMMISSION,&DEPTNO)

new 1: INSERT INTO EMP VALUES(1,'TES','TESTER',100000,23,56)

1 row created.

SQL> INSERT INTO EMP VALUES(&EMPNO,'&ENAME','&JOB',&SALARY,&COMMISSION,&DEPTNO);

Enter value for empno: 2

Enter value for ename: ANNA

Enter value for job: PROGRAMMER

Enter value for salary: 20000000

Enter value for commission: 24

Enter value for deptno: 57

old 1: INSERT INTO EMP VALUES(&EMPNO,'&ENAME','&JOB',&SALARY,&COMMISSION,&DEPTNO)

new 1: INSERT INTO EMP VALUES(2,'ANNA','PROGRAMMER',20000000,24,57)

1 row created.

SQL> INSERT INTO EMP VALUES(&EMPNO,'&ENAME','&JOB',&SALARY,&COMMISSION,&DEPTNO);

Enter value for empno: 3

Enter value for ename: SURYA

Enter value for job: DESIGNER

Enter value for salary: 3000000

Enter value for commission: 25

Enter value for deptno: 58

old 1: INSERT INTO EMP VALUES(&EMPNO,'&ENAME','&JOB',&SALARY,&COMMISSION,&DEPTNO)

new 1: INSERT INTO EMP VALUES(3,'SURYA','DESIGNER',3000000,25,58)

1 row created.

SQL> SELECT \* FROM EMP;

EMPNO ENAME JOB SALARY COMMISSION

---------- ------------------------- ------------ ---------- ----------

DEPTNO

----------

1 TES TESTER 100000 23

56

2 ANNA PROGRAMMER 20000000 24

57

3 SURYA DESIGNER 3000000 25

58

SQL> UPDATE EMP SET JOB='DATADESIGNER' WHERE EMPNO=3;

1 row updated.

SQL> SELECT \* FROM EMP;

EMPNO ENAME JOB SALARY COMMISSION

---------- ------------------------- ------------ ---------- ----------

DEPTNO

----------

1 TES TESTER 100000 23

56

2 ANNA PROGRAMMER 20000000 24

57

3 SURYA DATADESIGNER 3000000 25

58

SQL> INSERT INTO EMP VALUES(&EMPNO,'&ENAME','&JOB',&SALARY,&COMMISSION,&DEPTNO);

Enter value for empno: 4

Enter value for ename: ANJU

Enter value for job:

Enter value for salary: 50000

Enter value for commission: 26

Enter value for deptno: 59

old 1: INSERT INTO EMP VALUES(&EMPNO,'&ENAME','&JOB',&SALARY,&COMMISSION,&DEPTNO)

new 1: INSERT INTO EMP VALUES(4,'ANJU','',50000,26,59)

1 row created.

SQL> SELECT \* FROM EMP;

EMPNO ENAME JOB SALARY COMMISSION

---------- ------------------------- ------------ ---------- ----------

DEPTNO

----------

1 TES TESTER 100000 23

56

2 ANNA PROGRAMMER 20000000 24

57

3 SURYA DATADESIGNER 3000000 25

58

EMPNO ENAME JOB SALARY COMMISSION

---------- ------------------------- ------------ ---------- ----------

DEPTNO

----------

4 ANJU 50000 26

59

SQL> UPDATE EMP SET JOB='CLERK' WHERE JOB='NULL';

0 rows updated.

SQL> DELETE EMP WHERE EMPNO=4;

1 row deleted.

SQL> SELECT \* FROM EMP;

EMPNO ENAME JOB SALARY COMMISSION

---------- ------------------------- ------------ ---------- ----------

DEPTNO

----------

1 TES TESTER 100000 23

56

2 ANNA PROGRAMMER 20000000 24

57

3 SURYA DATADESIGNER 3000000 25

58

SQL> UPDATE EMP SET JOB='CLERK' WHERE EMPNO=3;

1 row updated.

SQL> SELECT \* FROM EMP;

EMPNO ENAME JOB SALARY COMMISSION

---------- ------------------------- ------------ ---------- ----------

DEPTNO

----------

1 TES TESTER 100000 23

56

2 ANNA PROGRAMMER 20000000 24

57

3 SURYA CLERK 3000000 25

58

SQL> ALTER TABLE EMP ADD(DOJ DATE);

Table altered.

SQL> SELECT \* FROM EMP;

EMPNO ENAME JOB SALARY COMMISSION

---------- ------------------------- ------------ ---------- ----------

DEPTNO DOJ

---------- ---------

1 TES TESTER 100000 23

56

2 ANNA PROGRAMMER 20000000 24

57

3 SURYA CLERK 3000000 25

58

SQL> DESC EMP;

Name Null? Type

----------------------------------------- -------- ----------------------------

EMPNO NOT NULL NUMBER(4)

ENAME VARCHAR2(25)

JOB VARCHAR2(12)

SALARY NUMBER(10)

COMMISSION NUMBER(7)

DEPTNO NUMBER(2)

DOJ DATE

SQL> INSERT INTO EMP VALUES(&DOJ);

Enter value for doj: 17-DEC-1980

old 1: INSERT INTO EMP VALUES(&DOJ)

new 1: INSERT INTO EMP VALUES(17-DEC-1980)

INSERT INTO EMP VALUES(17-DEC-1980)

\*

ERROR at line 1:

ORA-00947: not enough values

SQL> UPDATE EMP SET DOJ='17-DEC-80';

3 rows updated.

SQL> SELECT \* FROM EMP;

EMPNO ENAME JOB SALARY COMMISSION

---------- ------------------------- ------------ ---------- ----------

DEPTNO DOJ

---------- ---------

1 TES TESTER 100000 23

56 17-DEC-80

2 ANNA PROGRAMMER 20000000 24

57 17-DEC-80

3 SURYA CLERK 3000000 25

58 17-DEC-80

SQL> SELECT DISTINCT JOB FROM EMP;

JOB

------------

CLERK

PROGRAMMER

TESTER

SQL> SELECT EMPNAME FROM EMP WHERE DEPT=56 OR DEPT=58;

SELECT EMPNAME FROM EMP WHERE DEPT=56 OR DEPT=58

\*

ERROR at line 1:

ORA-00904: "DEPT": invalid identifier

SQL> SELECT EMPNAME FROM EMP WHERE DEPTNO=56 OR DEPTNO=58;

SELECT EMPNAME FROM EMP WHERE DEPTNO=56 OR DEPTNO=58

\*

ERROR at line 1:

ORA-00904: "EMPNAME": invalid identifier

SQL> SELECT ENAME FROM EMP WHERE DEPTNO=56 OR DEPTNO=58;

ENAME

-------------------------

TES

SURYA

SQL> SELECT ENAME\_SUM(SALARY+COMMISSION)FROM EMP GROUP BY JOB;

SELECT ENAME\_SUM(SALARY+COMMISSION)FROM EMP GROUP BY JOB

\*

ERROR at line 1:

ORA-00904: "ENAME\_SUM": invalid identifier

SQL> SELECT ENAME SUM(SALARY+COMMISSION)FROM EMP GROUP BY JOB;

SELECT ENAME SUM(SALARY+COMMISSION)FROM EMP GROUP BY JOB

\*

ERROR at line 1:

ORA-00923: FROM keyword not found where expected

SQL> SELECT ENAME SUM SALARY+COMMISSION FROM EMP GROUP BY JOB;

SELECT ENAME SUM SALARY+COMMISSION FROM EMP GROUP BY JOB

\*

ERROR at line 1:

ORA-00923: FROM keyword not found where expected

SQL> SELECT SUM(SALARY)FROM EMP;

SUM(SALARY)

-----------

23100000

SQL> SELECT ENAME,SUM(SALARY+COMMISSION)FROM EMP GROUP BY JOB;

SELECT ENAME,SUM(SALARY+COMMISSION)FROM EMP GROUP BY JOB

\*

ERROR at line 1:

ORA-00979: not a GROUP BY expression

SQL> SELECT ENAME,SUM(SALARY+COMMISSION)FROM EMP GROUP BY ENAME;

ENAME SUM(SALARY+COMMISSION)

------------------------- ----------------------

SURYA 3000025

TES 100023

ANNA 20000024

SQL> SELECT SUM(SALARY)FROM EMP GROUP BY JOB;

SUM(SALARY)

-----------

3000000

20000000

100000

SQL> UPDATE EMP SET SALARY=SALARY+COMMISSION;

3 rows updated.

SQL> SELECT \* FROM EMP;

EMPNO ENAME JOB SALARY COMMISSION

---------- ------------------------- ------------ ---------- ----------

DEPTNO DOJ

---------- ---------

1 TES TESTER 100023 23

56 17-DEC-80

2 ANNA PROGRAMMER 20000024 24

57 17-DEC-80

3 SURYA CLERK 3000025 25

58 17-DEC-80

SQL> DELETE COMMISSION FROM EMP;

DELETE COMMISSION FROM EMP

\*

ERROR at line 1:

ORA-00933: SQL command not properly ended

SQL> ALTER TABLE EMP DELETE(COMMISSION NUMBER(7));

ALTER TABLE EMP DELETE(COMMISSION NUMBER(7))

\*

ERROR at line 1:

ORA-01735: invalid ALTER TABLE option

SQL> ALTER TABLE EMP DROP(COMMISSION NUMBER(7));

ALTER TABLE EMP DROP(COMMISSION NUMBER(7))

\*

ERROR at line 1:

ORA-00907: missing right parenthesis

SQL> ALTER TABLE EMP DROP(COMMISSION);

Table altered.

SQL> SELECT \* FROM EMP;

EMPNO ENAME JOB SALARY DEPTNO

---------- ------------------------- ------------ ---------- ----------

DOJ

---------

1 TES TESTER 100023 56

17-DEC-80

2 ANNA PROGRAMMER 20000024 57

17-DEC-80

3 SURYA CLERK 3000025 58

17-DEC-80

SQL> UPDATE TABLE EMP SALARY=30000 WHERE EMPNO=1;

UPDATE TABLE EMP SALARY=30000 WHERE EMPNO=1

\*

ERROR at line 1:

ORA-00903: invalid table name

SQL> UPDATE EMP SALARY=30000 WHERE EMPNO=1;

UPDATE EMP SALARY=30000 WHERE EMPNO=1

\*

ERROR at line 1:

ORA-00971: missing SET keyword

SQL> UPDATE EMP SET SALARY=30000 WHERE EMPNO=1;

1 row updated.

SQL> SELECT \* FROM EMP;

EMPNO ENAME JOB SALARY DEPTNO

---------- ------------------------- ------------ ---------- ----------

DOJ

---------

1 TES TESTER 30000 56

17-DEC-80

2 ANNA PROGRAMMER 20000024 57

17-DEC-80

3 SURYA CLERK 3000025 58

17-DEC-80

SQL> UPDATE EMP SET SALARY=SALARY+COMMISSION;

UPDATE EMP SET SALARY=SALARY+COMMISSION

\*

ERROR at line 1:

ORA-00904: "COMMISSION": invalid identifier

SQL> UPDATE EMP SET SALARY=SALARY+COMMISSION WHERE EMPNO=1;

UPDATE EMP SET SALARY=SALARY+COMMISSION WHERE EMPNO=1

\*

ERROR at line 1:

ORA-00904: "COMMISSION": invalid identifier

SQL> UPDATE EMP SET ENAME=EMPNAME;

UPDATE EMP SET ENAME=EMPNAME

\*

ERROR at line 1:

ORA-00904: "EMPNAME": invalid identifier

SQL> UPDATE EMP SET ENAME='EMPNAME';

3 rows updated.

SQL> SELECT \* FROM EMP;

EMPNO ENAME JOB SALARY DEPTNO

---------- ------------------------- ------------ ---------- ----------

DOJ

---------

1 EMPNAME TESTER 30000 56

17-DEC-80

2 EMPNAME PROGRAMMER 20000024 57

17-DEC-80

3 EMPNAME CLERK 3000025 58

17-DEC-80

SQL> UPDATE EMP SET ENAME='TES' WHERE EMPNO=1;

1 row updated.

SQL> UPDATE EMP SET ENAME='ANNA' WHERE EMPNO=2;

1 row updated.

SQL> UPDATE EMP SET ENAME='SURYA' WHERE EMPNO=3;

1 row updated.

SQL> SELECT \* FROM EMP;

EMPNO ENAME JOB SALARY DEPTNO

---------- ------------------------- ------------ ---------- ----------

DOJ

---------

1 TES TESTER 30000 56

17-DEC-80

2 ANNA PROGRAMMER 20000024 57

17-DEC-80

3 SURYA CLERK 3000025 58

17-DEC-80

SQL> CHANGE COLUMN ENAME TO EMPNAME;

SP2-0023: String not found.

SQL> ALTER TABLE EMP;

ALTER TABLE EMP

\*

ERROR at line 1:

ORA-02210: no options specified for ALTER TABLE

SQL> ALTER TABLE EMP CHANGE COLUMN ENAME TO EMPNAME;

ALTER TABLE EMP CHANGE COLUMN ENAME TO EMPNAME

\*

ERROR at line 1:

ORA-01735: invalid ALTER TABLE option

SQL> ALTER TABLE EMP RENAME COLUMN ENAME TO EMPNAME;

Table altered.

SQL> SELECT \* FROM EMP;

EMPNO EMPNAME JOB SALARY DEPTNO

---------- ------------------------- ------------ ---------- ----------

DOJ

---------

1 TES TESTER 30000 56

17-DEC-80

2 ANNA PROGRAMMER 20000024 57

17-DEC-80

3 SURYA CLERK 3000025 58

17-DEC-80

SQL> ALTER TABLE EMP RENAME EMPNO TO EMPID;

ALTER TABLE EMP RENAME EMPNO TO EMPID

\*

ERROR at line 1:

ORA-14155: missing PARTITION, PARTITIONS, SUBPARTITION, or SUBPARTITIONS

keyword

SQL> ALTER TABLE EMP RENAME COLUMN EMPNO TO EMPID;

Table altered.

SQL> SELECT \* FROM EMP;

EMPID EMPNAME JOB SALARY DEPTNO

---------- ------------------------- ------------ ---------- ----------

DOJ

---------

1 TES TESTER 30000 56

17-DEC-80

2 ANNA PROGRAMMER 20000024 57

17-DEC-80

3 SURYA CLERK 3000025 58

17-DEC-80

SQL> SET LINESIZE 100;

SQL> SELECT \* FROM EMP;

EMPID EMPNAME JOB SALARY DEPTNO DOJ

---------- ------------------------- ------------ ---------- ---------- ---------

1 TES TESTER 30000 56 17-DEC-80

2 ANNA PROGRAMMER 20000024 57 17-DEC-80

3 SURYA CLERK 3000025 58 17-DEC-80

SQL> ALTER TABLE EMP RENAME EMP TO EMPLOYEE;

ALTER TABLE EMP RENAME EMP TO EMPLOYEE

\*

ERROR at line 1:

ORA-14155: missing PARTITION, PARTITIONS, SUBPARTITION, or SUBPARTITIONS keyword

SQL> ALTER TABLE EMP RENAME TABLE EMP TO EMPLOYEE;

ALTER TABLE EMP RENAME TABLE EMP TO EMPLOYEE

\*

ERROR at line 1:

ORA-14155: missing PARTITION, PARTITIONS, SUBPARTITION, or SUBPARTITIONS keyword

SQL> ALTER TABLE EMP RENAME TO EMPLOYEE;

ALTER TABLE EMP RENAME TO EMPLOYEE

\*

ERROR at line 1:

ORA-00955: name is already used by an existing object

SQL> ALTER TABLE EMP RENAME TO EMPLOYEE1;

Table altered.

SQL> SELECT \* FROM EMPLOYEE1;

EMPID EMPNAME JOB SALARY DEPTNO DOJ

---------- ------------------------- ------------ ---------- ---------- ---------

1 TES TESTER 30000 56 17-DEC-80

2 ANNA PROGRAMMER 20000024 57 17-DEC-80

3 SURYA CLERK 3000025 58 17-DEC-80

SQL> DESC EMPLOYEE1;

Name Null? Type

----------------------------------------------------- -------- ------------------------------------

EMPID NOT NULL NUMBER(4)

EMPNAME VARCHAR2(25)

JOB VARCHAR2(12)

SALARY NUMBER(10)

DEPTNO NUMBER(2)

DOJ DATE

SQL>