Assignment

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Course Title: **DBA**

GCWUS

Lab1: CREATE TABLE in database, INSERT values into the table and display table using SELECT command

```
Run SQL Command Line

SQL*Plus: Release 10.2.0.1.0 - Production on Tue Feb 26 12:19:37 2019

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SQL> conn system
Enter password:
Connected.
SQL> CREATE TABLE DEPARTMENT
  2  ( ID CHAR(5),
  3  NAME CHAR(15)
  4  AGE CHAR(10),
  5  ADDRESS CHAR(10));
AGE CHAR(10),
*
ERROR at line 4:
ORA-00907: missing right parenthesis

SQL> CREATE TABLE DEPARTMENT
  2  (ID CHAR(5),
  3  NAME CHAR(15),
  4  AGE CHAR(10)
  5
SQL> CREATE TABLE DEPARTMENT
  2  (ID CHAR(5),
  3  NAME CHAR(15),
  4  AGE CHAR(10),
  5  ADDRESS CHAR(10));

Table created.

SQL> INSERT INTO DEPARTMENT VALUES('1','ZAINAB','23','ABC');

1 row created.

SQL> INSERT INTO DEPARTMENT VALUES('2','WAFA','24','CDA');

1 row created.

SQL> INSERT INTO DEPARTMENT VALUES('3','SHEEZA','25','ERR');

1 row created.

SQL> INSERT INTO DEPARTMENT VALUES('4','AMAARA','41','CVC');

1 row created.

SQL> INSERT INTO DEPARTMENT VALUES('5','RIMI','7','FGF');

1 row created.
```

```
Run SQL Command Line                                          [ □ ][ ⟍ ][ ✕ ]

Table created.
SQL> INSERT INTO DEPARTMENT VALUES('1','ZAINAB','23','ABC');

1 row created.

SQL> INSERT INTO DEPARTMENT VALUES('2','WAFA','24','CDA');

1 row created.

SQL> INSERT INTO DEPARTMENT VALUES('3','SHEEZA','25','ERR');

1 row created.

SQL> INSERT INTO DEPARTMENT VALUES('4','AMAARA','41','CVC');

1 row created.

SQL> INSERT INTO DEPARTMENT VALUES('5','RIMI','7','FGF');

1 row created.

SQL> SELECT * FROM DEPARTMENT
  2  ;
ID      NAME            AGE         ADDRESS
_____  _____  _____  _____
1       ZAINAB          23          ABC
2       WAFA            24          CDA
3       SHEEZA          25          ERR
4       AMAARA          41          CVC
5       RIMI            7           FGF

SQL> SELECT AGE
  2  FROM DEPARTMENT;

AGE
_____
23
24
25
41
7

SQL> SELECT NAME
  2  FROM DEPARTMENT;

NAME
_____
ZAINAB
WAFA
SHEEZA
AMAARA
RIMI

SQL>
```

```
SQL> SELECT ID
  2  FROM DEPARTMENT;

ID
_____
1
2
3
4
5
SQL> SELECT NAME,AGE+5
  2  FROM DEPARTMENT;

NAME            AGE+5
_____  _____
ZAINAB          28
WAFA            29
SHEEZA          30
AMAARA          46
RIMI            12

SQL> SELECT NAME,AGE-4
  2  FROM DEPARTMENT;

NAME            AGE-4
_____  _____
ZAINAB          19
WAFA            20
SHEEZA          21
AMAARA          37
RIMI            3

SQL> SELECT NAME ,AGE*5
  2  FROM DEPARTMENT;

NAME            AGE*5
_____  _____
ZAINAB          115
WAFA            120
SHEEZA          125
AMAARA          205
RIMI            35
```

```
Run SQL Command Line

SQL> CREATE TABLE EMPLOYEE2
  2  (ENO CHAR(2) PRIMARY KEY,
  3  FIRSTNAME CHAR(15) NOT NULL,
  4  LASTNAME CHAR(15) NOT NULL,
  5  AGE CHAR(5),
  6  DEPTINAME CHAR(10),
  7  SALARY DECIMAL(7,2),
  8  JOBTITLE CHAR(15));

Table created.

SQL> INSERT INTO EMPLOYEE2 VALUES('1','WAFA','ZAINAB','22','IT','1500.9','MANAGE
R');

1 row created.

SQL> INSERT INTO EMPLOYEE2 VALUES('2','ZAINAB','MUSHTAQ','22','IT','1111.6','EMP
LOYEE');

1 row created.

SQL> INSERT INTO EMPLOYEE2 VALUES('3','SHEEZA','QAISER','22','IT','15767.2','MAN
AGER');

1 row created.
```

```
Run SQL Command Line

SQL> INSERT INTO EMPLOYEE2 VALUES('4','MARIA','ABBAS','22','IT','333.5','STUDENT
');

1 row created.

SQL> INSERT INTO EMPLOYEE2 VALUES('5','RIMSHA','GOHAR','22','IT','232.66','MANAG
ER');

1 row created.

SQL> INSERT INTO EMPLOYEE2 VALUES('6','MEMOONA','MALIK','22','CS','432.45','MD')
;

1 row created.

SQL> INSERT INTO EMPLOYEE2 VALUES('7','AMARA','JAVED','22','CS','323.34','GM');

1 row created.

SQL> INSERT INTO EMPLOYEE2 VALUES('8','JAVERIA','TAYYAB','CS','7632.4','TEACHER'
);
INSERT INTO EMPLOYEE2 VALUES('8','JAVERIA','TAYYAB','CS','7632.4','TEACHER')
                 *
ERROR at line 1:
ORA-00947: not enough values
```

```
Run SQL Command Line

SQL> INSERT INTO EMPLOYEE2 VALUES('8','JAVERIA','TAYYAB','22','CS','7632.4','TEA
CHER');

1 row created.

SQL> INSERT INTO EMPLOYEE2 VALUES('9','AIFA','MUSHTAQ','24','BA','2133.4','DOMES
TIC');

1 row created.

SQL> INSERT INTO EMPLOYEE2 VALUES('10','AMARA','BARI','29','MSC','4335.78','TEAC
HER');

1 row created.

SQL> SELECT FIRSTNAME,JOBTITLE,DETTNO FROM EMPLOYEE2 WHERE JOBTITLE='MANAGER';
SELECT FIRSTNAME,JOBTITLE,DETTNO FROM EMPLOYEE2 WHERE JOBTITLE='MANAGER'
                           *
ERROR at line 1:
ORA-00904: "DETTNO": invalid identifier

SQL> SELECT FIRSTNAME,JOBTITLE,DEPTTNO FROM EMPLOYEE2 WHERE JOBTITLE='MANAGER';
SELECT FIRSTNAME,JOBTITLE,DEPTTNO FROM EMPLOYEE2 WHERE JOBTITLE='MANAGER'
```

```
Run SQL Command Line

SQL> SELECT FIRSTNAME,JOBTITLE,DEPTINAME FROM EMPLOYEE2 WHERE JOBTITLE='MANAGER'
;

FIRSTNAME       JOBTITLE        DEPTINAME
--------------- --------------- ----------
WAFA            MANAGER         IT
SHEEZA          MANAGER         IT
RIMSHA          MANAGER         IT

SQL> SELECT FIRSTNAME,LASTNAME,DEPTINAME FROM EMPLOYEE2 WHERE FIRSTNAME='AIFA';

FIRSTNAME       LASTNAME        DEPTINAME
--------------- --------------- ----------
AIFA            MUSHTAQ         BA

SQL> SELECT FIRSTNAME,DEPTINAME,SALARY+2.0 FROM EMPLOYEE2;

FIRSTNAME       DEPTINAME  SALARY+2.0
--------------- ---------- ----------
WAFA            IT             1502.9
ZAINAB          IT             1113.6
SHEEZA          IT            15769.2
MARIA           IT              335.5
RIMSHA          IT             234.66
MEMOONA         CS             434.45
```

```
AMARA           CS              325.34
JAVERIA         CS              7634.4
AIFA            BA              2135.4
AMARA           MSC             4337.78

10 rows selected.

SQL> SELECT FIRSTNAME,DEPTTNAME,12*SALARY+100 FROM EMPLOYEE2;

FIRSTNAME       DEPTTNAME  12*SALARY+100
--------------- ---------- -------------
WAFA            IT               18110.8
ZAINAB          IT               13439.2
SHEEZA          IT              189306.4
MARIA           IT                  4102
RIMSHA          IT               2891.92
MEMOONA         CS                5289.4
AMARA           CS               3980.08
JAVERIA         CS               91688.8
AIFA            BA               25700.8
AMARA           MSC             52129.36

10 rows selected.

SQL> SELECT FIRSTNAME,DEPTTNAME,12*(SALARY+100) FROM EMPLOYEE2;
```

```
FIRSTNAME       DEPTTNAME  12*(SALARY+100)
--------------- ---------- ---------------
WAFA            IT               19210.8
ZAINAB          IT               14539.2
SHEEZA          IT              190406.4
MARIA           IT                  5202
RIMSHA          IT               3991.92
MEMOONA         CS                6389.4
AMARA           CS               5080.08
JAVERIA         CS               92788.8
AIFA            BA               26800.8
AMARA           MSC             53229.36

10 rows selected.

SQL> SELECT FIRSTNAME,JOBTITLE,DEPTTNAME FROM EMPLOYEE2;

FIRSTNAME       JOBTITLE        DEPTTNAME
--------------- --------------- ----------
WAFA            MANAGER         IT
ZAINAB          EMPLOYEE        IT
SHEEZA          MANAGER         IT
MARIA           STUDENT         IT
RIMSHA          MANAGER         IT
```

```
MEMOONA         MD              CS
AMARA           GM              CS
JAVERIA         TEACHER         CS
AIFA            DOMESTIC        BA
AMARA           TEACHER         MSC

10 rows selected.

SQL> CREATE TABLE OFFICE
  2  (NAME CHAR(10),
  3  SALARY CHAR(20),
  4  BONUS CHAR(20));
CREATE TABLE OFFICE
             *
ERROR at line 1:
ORA-00955: name is already used by an existing object

SQL> CREATE TABLE OFFICE
  2  (NAME CHAR(10),
  3  SALARY CHAR(20),
  4
SQL> ;
  1  CREATE TABLE OFFICE
  2  (NAME CHAR(10),
```
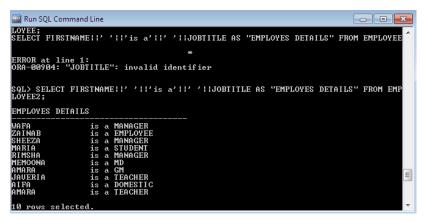
```
    3* SALARY CHAR(20),
SQL> CREATE TABLE OFFICE1
  2  (NAME CHAR(10),
  3  SALARY CHAR(20),
  4  BONUS CHAR(20));

Table created.

SQL> INSERT INTO OFFICE1 VALUES('SUNAINA','1668','1000');

1 row created.

SQL> INSERT INTO OFFICE1 VALUES('MAHA','1608','2000');

1 row created.

SQL> INSERT INTO OFFICE1 VALUES('SARA','16008','3000');

1 row created.

SQL> SELECT NAME,12*SALARY+BONUS FROM OFFICE1 WHERE NAME='SARA';

NAME        12*SALARY+BONUS
----------- ---------------
SARA                 195096
```



```
SQL> SELECT NAME ||JOBTITLE AS "EMPLOYEES" FROM EMPLOYEE2;
SELECT NAME ||JOBTITLE AS "EMPLOYEES" FROM EMPLOYEE2
       *
ERROR at line 1:
ORA-00904: "NAME": invalid identifier


SQL> SELECT FIRSTNAME ||JOBTITLE AS "EMPLOYEES" FROM EMPLOYEE2;

EMPLOYEES
-------------------------------
WAFA        MANAGER
ZAINAB      EMPLOYEE
SHEEZA      MANAGER
MARIA       STUDENT
RIMSHA      MANAGER
MEMOONA     MD
AMARA       GM
JAVERIA     TEACHER
AIFA        DOMESTIC
AMARA       TEACHER

10 rows selected.

SQL> SELECT FIRSTNAME||' '||'is a'||' '||JOBTITLE AS "EMPLOYES DETAILS" FROM EMP
```



```
LOYEE;
SELECT FIRSTNAME||' '||'is a'||' '||JOBTITLE AS "EMPLOYES DETAILS" FROM EMPLOYEE
                                                *
ERROR at line 1:
ORA-00904: "JOBTITLE": invalid identifier


SQL> SELECT FIRSTNAME||' '||'is a'||' '||JOBTITLE AS "EMPLOYES DETAILS" FROM EMP
LOYEE2;

EMPLOYES DETAILS
-------------------------------
WAFA        is a MANAGER
ZAINAB      is a EMPLOYEE
SHEEZA      is a MANAGER
MARIA       is a STUDENT
RIMSHA      is a MANAGER
MEMOONA     is a MD
AMARA       is a GM
JAVERIA     is a TEACHER
AIFA        is a DOMESTIC
AMARA       is a TEACHER

10 rows selected.
```



```
SQL> SELECT NAME,SALARY,BONUS FROM OFFICE1 WHERE SALARY<=BONUS;

NAME        SALARY               BONUS
----------- -------------------- --------------------
MAHA        1608                 2000
SARA        16008                3000

SQL> SELECT NAME,SALARY,BONUS FROM OFFICE1 WHERE SALARY>=BONUS;

NAME        SALARY               BONUS
----------- -------------------- --------------------
SUNAINA     1668                 1000
```

Lab2: ADD and MODIFY commands used by ALTER and RENAME table & DELETE a random table.

```
Run SQL Command Line

SQL> ALTER TABLE EMPLOYEE2
  2  ADD(CONTACTNO NUMBER(11) NOT NULL);
ALTER TABLE EMPLOYEE2
                    *
ERROR at line 1:
ORA-01758: table must be empty to add mandatory (NOT NULL) column


SQL> ALTER TABLE EMPLOYEE2
  2  ADD(CONTACTNO NUMBER(11));

Table altered.

SQL> ALTER TABLE OFFICE1 MODIFY(SALARY INT(20));
ALTER TABLE OFFICE1 MODIFY(SALARY INT(20))
                                      *
ERROR at line 1:
ORA-00907: missing right parenthesis


SQL> ALTER TABLE OFFICE1 MODIFY(SALARY VARCHAR(20));

Table altered.

SQL> RENAME OFFICE1 TO WORKERS;

Table renamed.
```

```
Run SQL Command Line

SQL> DELETE FROM WORKERS;

0 rows deleted.

SQL> DELETE FROM OFFICE1;
DELETE FROM OFFICE1
            *
ERROR at line 1:
ORA-00942: table or view does not exist


SQL> DELETE FROM EMPLOYEE2;

10 rows deleted.

SQL>
```