**Assignment#2**

**#2** SQL> describe employee;

Name Null? Type

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

EMP\_ID CHAR(4)

NAME VARCHAR2(20)

DOB DATE

TITLE VARCHAR2(20)

SALARY NUMBER(10,2)

BONUS NUMBER(4)

**#3** SQL> select \* from employee;

EMP\_ NAME DOB TITLE SALARY BONUS

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

01 Smith/James 01-JAN-89 Salesperson 80000 2000

02 Johnson/Ron K 10-JAN-85 Sales Manager 80000 3000

03 Hobbs/Fred Ann 20-NOV-91 Salesperson 85000 2000

04 Mary/Jones 25-MAY-81 CEO 180000 9000

05 Doe/Susan 16-DEC-84 Salesperson 82000 2100

**#4** **(Before)**

SQL> select \* from employee where title = 'CEO';

EMP\_ NAME DOB TITLE SALARY BONUS

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

04 Mary/Jones 25-MAY-81 CEO 180000 9000

UPDATE employee **(I used this command to update)**

SET bonus = 8000

WHERE title = 'CEO';

**(After change in bonus)**

SQL> select \* from employee where title = 'CEO';

EMP\_ NAME DOB TITLE SALARY BONUS

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

04 Mary/Jones 25-MAY-81 CEO 180000

8000

**#5** **(Before updating)**

SQL> select \* from employee

where title = 'Sales Manager';

EMP\_ NAME DOB TITLE SALARY BONUS

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

02 Johnson/Ron K 10-JAN-85 Sales Manager 80000 3000

update employee

set title = 'Senior Manager', salary = 85000, bonus = 3500

3 where title = 'Sales Manager';

**(after updating**)

SQL> select \* from employee

where title = 'Senior Manager';

EMP\_ NAME DOB TITLE SALARY BONUS

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

02 Johnson/Ron K 10-JAN-85 Senior Manager 85000 3500

**#6** update employee

set bonus = bonus + 500

where title = 'Salesperson';

**3 rows updated.**

SQL> select \* from employee;

EMP\_ NAME DOB TITLE SALARY BONUS

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

01 Smith/James 01-JAN-89 Salesperson 80000 2500

02 Johnson/Ron K 10-JAN-85 Sales Manager 80000 3000

03 Hobbs/Fred Ann 20-NOV-91 Salesperson 85000 2500

04 Mary/Jones 25-MAY-81 CEO 180000 8000

05 Doe/Susan 16-DEC-84 Salesperson 82000 2600

#**7 (Before adding record)**

SQL> select \* from employee;

EMP\_ NAME DOB TITLE SALARY BONUS

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

01 Smith/James 01-JAN-89 Salesperson 80000 2500

02 Johnson/Ron K 10-JAN-85 Senior Manager 85000 3500

03 Hobbs/Fred Ann 20-NOV-91 Salesperson 85000 2500

04 Mary/Jones 25-MAY-81 CEO 180000 8000

05 Doe/Susan 16-DEC-84 Salesperson 82000 2600

**(I typed the insert command which I used to add a record)**

Insert into employee

values ( ‘06’,‘Harrison/Carl’, ‘10-OCT-87’, ‘Marketing’, 65000, 1500);

**(After adding record)**

EMP\_ NAME DOB TITLE SALARY BONUS

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

06 Harrison/Carl 10-OCT-87 Marketing 65000 1500

01 Smith/James 01-JAN-89 Salesperson 80000 2500

02 Johnson/Ron K 10-JAN-85 Senior Manager 85000 3500

03 Hobbs/Fred Ann 20-NOV-91 Salesperson 85000 2500

04 Mary/Jones 25-MAY-81 CEO 180000 8000

05 Doe/Susan 16-DEC-84 Salesperson 82000 2600

**#8** **(before deleting)**

EMP\_ NAME DOB TITLE SALARY BONUS

---- -------------------- --------- -------------------- ---------- --**--------**

06 Harrison/Carl 10-OCT-87 Marketing 65000 1500

01 Smith/James 01-JAN-89 Salesperson 80000 2500

02 Johnson/Ron K 10-JAN-85 Senior Manager 85000 3500

03 Hobbs/Fred Ann 20-NOV-91 Salesperson 85000 2500

04 Mary/Jones 25-MAY-81 CEO 180000 8000

05 Doe/Susan 16-DEC-84 Salesperson 82000 2600

**(After Deleting)**

delete from employee

2 where emp\_id = '06';

1 row deleted.

SQL> select \* from employee;

EMP\_ NAME DOB TITLE SALARY BONUS

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

01 Smith/James 01-JAN-89 Salesperson 80000 2500

02 Johnson/Ron K 10-JAN-85 Senior Manager 85000 3500

03 Hobbs/Fred Ann 20-NOV-91 Salesperson 85000 2500

04 Mary/Jones 25-MAY-81 CEO 180000 8000

05 Doe/Susan 16-DEC-84 Salesperson 82000 2600

**#9 Adding column new\_sal**

alter table employee

add (new\_sal number(12,0));

Table altered.

**Populating it**

update employee

set new\_sal = salary + salary\*2/100;

5 rows updated.

SQL> select \* from employee;

EMP\_ NAME DOB TITLE SALARY BONUS

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

NEW\_SAL

----------

01 Smith/James 01-JAN-89 Salesperson 80000 2500

81600

02 Johnson/Ron K 10-JAN-85 Senior Manager 85000 3500

86700

03 Hobbs/Fred Ann 20-NOV-91 Salesperson 85000 2500

86700

EMP\_ NAME DOB TITLE SALARY BONUS

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

NEW\_SAL

----------

04 Mary/Jones 25-MAY-81 CEO 180000 8000

183600

05 Doe/Susan 16-DEC-84 Salesperson 82000 2600

83640

**#10 Modifying name varchar field**

alter table employee

2 modify (name varchar2(30));

Table altered.

SQL> describe employee;

Name Null? Type

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

EMP\_ID CHAR(4)

NAME VARCHAR2(30)

DOB DATE

TITLE VARCHAR2(20)

SALARY NUMBER(10,2)

BONUS NUMBER(4)

NEW\_SAL NUMBER(12)

**#11**

I found it on page 306 of the book Oracle database 11g.

Alter table employee

drop column salary;

Table altered.

SQL> select \* from employee;

EMP\_ NAME DOB TITLE BONUS

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

NEW\_SAL

----------

01 Smith/James 01-JAN-89 Salesperson 2500

81600

02 Johnson/Ron K 10-JAN-85 Senior Manager 3500

86700

03 Hobbs/Fred Ann 20-NOV-91 Salesperson 2500

86700

EMP\_ NAME DOB TITLE BONUS

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

NEW\_SAL

----------

04 Mary/Jones 25-MAY-81 CEO 8000

183600

05 Doe/Susan 16-DEC-84 Salesperson 2600

83640

**#12**

Renaming new\_sal column to salary.

alter table employee

2 rename column new\_sal to salary;

Table altered.

SQL> describe employee;

Name Null? Type

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

EMP\_ID CHAR(4)

NAME VARCHAR2(30)

DOB DATE

TITLE VARCHAR2(20)

BONUS NUMBER(4)

SALARY NUMBER(12)

**#13**

**Primary sort is TITLE and secondary is NAME.**

**select \* from employee**

**2 order by title, name;**

EMP\_ NAME DOB TITLE BONUS

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

SALARY

----------

04 Mary/Jones 25-MAY-81 CEO 8000

183600

05 Doe/Susan 16-DEC-84 Salesperson 2600

83640

03 Hobbs/Fred Ann 20-NOV-91 Salesperson 2500

86700

01 Smith/James 01-JAN-89 Salesperson 2500

81600

02 Johnson/Ron K 10-JAN-85 Senior Manager 3500

86700

**#14**

SQL> select \* from cat;

TABLE\_NAME TABLE\_TYPE

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

BONUS TABLE

DEPT TABLE

DONOR TABLE

EMP TABLE

EMPLOYEE TABLE

SALGRADE TABLE

**#15**

SQL> create table employee\_bk as select \* from employee;

Table created.

SQL> select \* from cat;

TABLE\_NAME TABLE\_TYPE

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

BONUS TABLE

DEPT TABLE

DONOR TABLE

EMP TABLE

EMPLOYEE TABLE

EMPLOYEE\_BK TABLE

SALGRADE TABLE

7 rows selected.