

DBMS LAB

Name=Om ashish Mishra

Registration Number=16BCE0789

The Employee table

```
-----  
FIRST_NAME          VARCHAR2  
MID_NAME            CHAR(2)  
LAST_NAME           VARCHAR2  
SSN_NUMBER          CHAR(9)  
BIRTHDAY            DATE  
ADDRESS             VARCHAR2  
SEX                 CHAR(1)  
SALARY              NUMBER  
SUPERVISOR_SSN      CHAR(9)  
DEPARTMENT_NUMBER   NUMBER
```

The Department table

```
ADDRESS  
SEX  
SALARY  
SUPERVISOR_SSN  
DEPARTMENT_NUMBER  
  
SQL> desc dm  
Name Null?  
-----  
DEPARTMENT_NAME  
DEPARTMENT_NUMBER  
MANAGERSSN  
MANAGERSTARTDATE  
  
SQL> desc project  
Name Null?  
-----  
PROJECT_NAME
```

The Project Table

```
DEPARTMENT_NUMBER
MANAGERSSN
MANAGERSTARTDATE

SQL> desc project
Name                                         Null?
-----
PROJECT_NAME
PROJECT_NUMBER
PROJECT_LOCATION
DEPARTMENT_NUMBER

SQL>
```

Page: 1 of 1 Words: 7

The details of the table employee:

Q1:


SQL Plus							
FIRST_NAME	MI	LAST_NAME	SSN_NUMBE	BIRTHDAY			
ADDRESS				S		SALARY	SUPERVISO
DEPARTMENT_NUMBER							
DOUG BOMBAY	E 3	GILBERT	554433221	09-JUN-60 M		80000	NULL
JOYCE DELHI	R 2	PAN	543216789	07-FEB-78 F		70000	NULL
FIRST_NAME	MI	LAST_NAME	SSN_NUMBE	BIRTHDAY			
ADDRESS				S		SALARY	SUPERVISO
DEPARTMENT_NUMBER							
FRANKIN KOLKATA	T 5	WONG	333445555	08-DEC-45 M		40000	554433221
JENNIFER DELHI	S	WALLACE	987654321	20-JUN-31 F		4300	554433221
FIRST_NAME	MI	LAST_NAME	SSN_NUMBE	BIRTHDAY			
ADDRESS				S		SALARY	SUPERVISO
DEPARTMENT_NUMBER							
JOHN BOMBAY	B 5	SMITH	123456789	09-JAN-55 M		30000	333445555
RAMESH	K	NARAYAN	666884444	15-SEP-52			
FIRST_NAME	MI	LAST_NAME	SSN_NUMBE	BIRTHDAY			
ADDRESS				S		SALARY	SUPERVISO
DEPARTMENT_NUMBER							
CHENNAI	5			M		30000	333445555
JOYCE KOLKATA	A 4	ENGLISH	453453453	31-JUL-62 F		25000	987654321
FIRST_NAME	MI	LAST_NAME	SSN_NUMBE	BIRTHDAY			
ADDRESS				S		SALARY	SUPERVISO
DEPARTMENT_NUMBER							
JAMES CHENNAI	E 1	BORG	888665555	10-NOV-27 M		55000	543216789
ALICIA DELHI	J	ZELAYA	999887777	19-JUL-58 F		25000	987654321



The details of the table Department:

DEPARTMENT_NAME	DEPARTMENT_NUMBER	MANAGERSS	MANAGERST
MANUFACTURE	1	888665555	19-JUN-71
ADMINISTRATION	2	543216789	04-JAN-99
HEADQUATER	3	987654321	22-SEP-55
FINANCE	4	987654321	01-JAN-85
RESEARCH	5	333445555	22-MAY-78

SQL>




The details of the table Project:

PROJECT_NAME	PROJECT_NUMBER	PROJECT_LOCATIO	DEPARTMENT_NUMBER
PROJECTA	3388	DELHI	1
PROJECTB	1945	KOLKATA	3
PROJECTC	6688	DELHI	5
PROJECTD	2423	BOMBAY	4
PROJECTE	7745	CHENNAI	5
PROJECTF	1566	KOLKATA	3
PROJECTH	3467	CHENNAI	2
PROJECTG	1234	BOMBAY	2
PROJECTI	4345	CHICAGO	1
PROJECTJ	2212	DELHI	2

10 rows selected.

SQL>




Q2:

```
SQL> select first_name, ssn_number, supervisor_ssn from employee;
```

FIRST_NAME	SSN_NUMBE	SUPERVISO
DOUG	554433221	NULL
JOYCE	543216789	NULL
FRANKIN	333445555	554433221
JENNIFER	987654321	554433221
JOHN	123456789	333445555
RAMESH	666884444	333445555
JOYCE	453453453	987654321
JAMES	888665555	543216789
ALICIA	999887777	987654321
AHMAD	987987987	987654321

10 rows selected.

SQL>



Q3:

```
SQL> select first_name from employee where supervisor_ssn = 554433221;
```

FIRST_NAME
AHMAD

SQL>



Q4:

```
SQL> select distinct salary from employee;
```

SALARY
55000
30000
40000
4300
80000
25000
70000

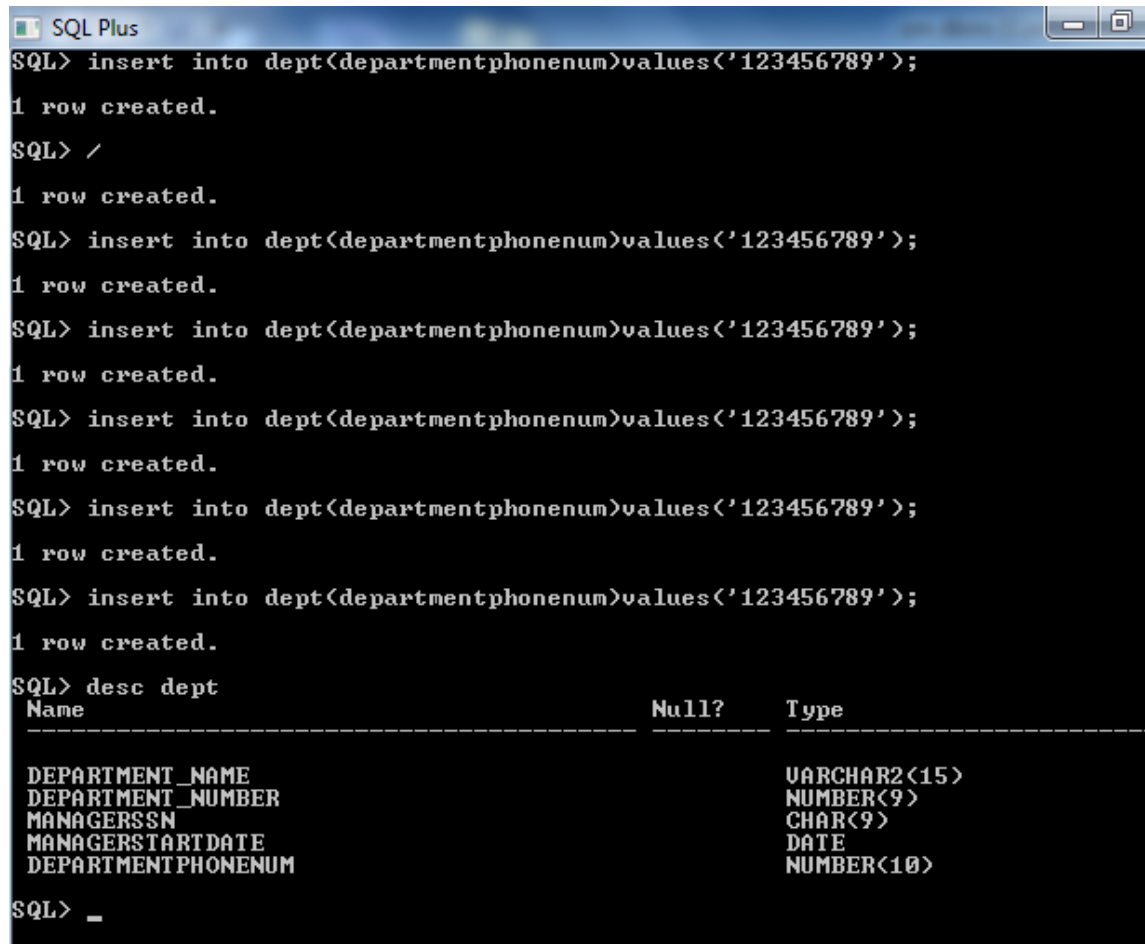
Q5.

```
SQL> select managerssn,managerstartdate from dept where department_name='finance';
no rows selected
```

Q6.

```
SQL> alter table dept add departmentphonenum number(10);
Table altered.
```

Q7.



```
SQL> insert into dept(departmentphonenum)values('123456789');
1 row created.
SQL> /
1 row created.
SQL> insert into dept(departmentphonenum)values('123456789');
1 row created.
SQL> insert into dept(departmentphonenum)values('123456789');
1 row created.
SQL> insert into dept(departmentphonenum)values('123456789');
1 row created.
SQL> insert into dept(departmentphonenum)values('123456789');
1 row created.
SQL> insert into dept(departmentphonenum)values('123456789');
1 row created.
SQL> desc dept

```


Name	Null?	Type
DEPARTMENT_NAME		VARCHAR2(15)
DEPARTMENT_NUMBER		NUMBER(9)
MANAGERSSN		CHAR(9)
MANAGERSTARTDATE		DATE
DEPARTMENTPHONENUM		NUMBER(10)

```
SQL> _
```

Q8.


```
SQL> alter table dept modify departmentphonenum number(12);
Table altered.
SQL> desc dept;
Name                                         Null?     Type
-----
DEPARTMENT_NAME                             UARCHAR2(15)
DEPARTMENT_NUMBER                           NUMBER(9)
MANAGERSSN                                  CHAR(9)
MANAGERSTARTDATE                             DATE
DEPARTMENTPHONENUM                           NUMBER(12)
SQL> _
```

Page: 7 of 10 Words: 44



```
SQL> select * from dept;
DEPARTMENT_NAME DEPARTMENT_NUMBER MANAGERSS MANAGERST DEPARTMENTPHONENUM
-----
MANUFACTURE      1 888665555 19-JUN-71
ADMINISTRATION   2 543216789 04-JAN-99
HEADQUATER       3 987654321 22-SEP-55
FINANCE          4 987654321 01-JAN-85
RESEARCH         5 333445555 22-MAY-78
123456789
123456789
123456789
123456789
123456789
123456789
DEPARTMENT_NAME DEPARTMENT_NUMBER MANAGERSS MANAGERST DEPARTMENTPHONENUM
-----
123456789
12 rows selected.
SQL> _
```

Page: 9 of 10 Words: 44



Q9:

```
SQL> Rename dm to dept;  
Table renamed.  
SQL>
```



Q10:

```
12 rows selected.  
SQL> alter table dept rename column departmentphonenum to phno;  
Table altered.
```

Q11:

```
SQL> alter table dept drop column phno;  
Table altered.  
SQL>
```