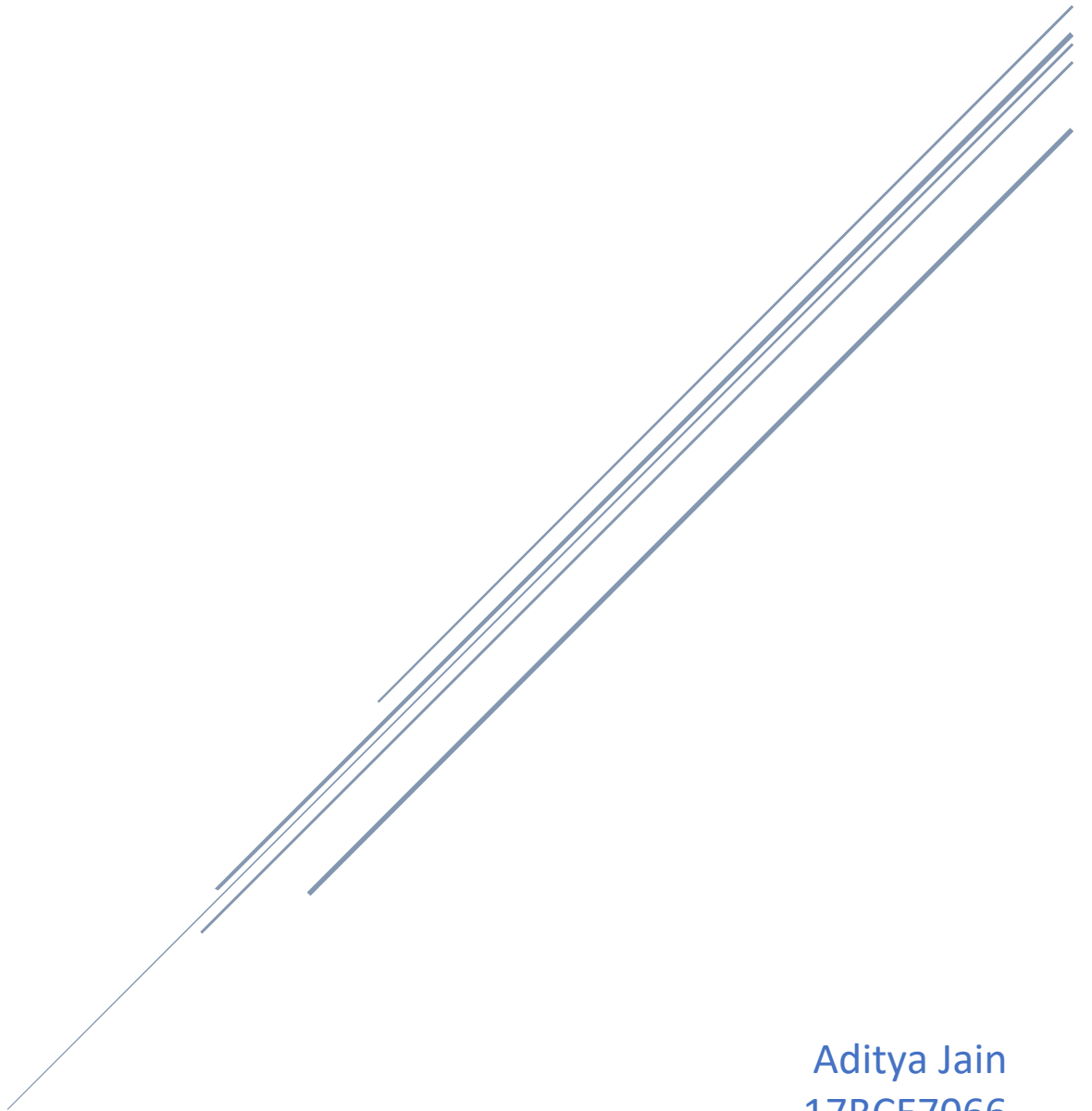


# CSE-2007 LAB ASSIGNMENT

## Exercise-1



Aditya Jain  
17BCE7066

```
SQL> create table employee(firstname varchar2(15),midname varchar2(2),lastname varchar2(15),ssn
char(9),birthday date,address varchar2(50),sex char(1),salary number(7),supervisorssn
char(9),departmentnumber number(5));
```

Table created.

```
SQL> desc employee;
```

Name	Null?	Type
-----		
FIRSTNAME		VARCHAR2(15)
MIDNAME		VARCHAR2(2)
LASTNAME		VARCHAR2(15)
SSN		CHAR(9)
BIRTHDAY		DATE
ADDRESS		VARCHAR2(50)
SEX		CHAR(1)
SALARY		NUMBER(7)
SUPERVISORSSN		CHAR(9)
DEPARTMENTNUMBER		NUMBER(5)

```
SQL> create table department (departmentname varchar2(15),departmentnumber
number(5),managerssn char(9),managerstartdate date);
```

Table created.

```
SQL> desc department;
```

Name	Null?	Type
-----		
DEPARTMENTNAME		VARCHAR2(15)
DEPARTMENTNUMBER		NUMBER(5)
MANAGERSSN		CHAR(9)
MANAGERSTARTDATE		DATE

```
SQL> create table project(projectname varchar2(15),projectnumber number(5),projectlocation
varchar2(15),departmentnumber number(5));
```

Table created.

```
SQL> desc project;
```

Name	Null?	Type
-----		
PROJECTNAME		VARCHAR2(15)
PROJECTNUMBER		NUMBER(5)
PROJECTLOCATION		VARCHAR2(15)
DEPARTMENTNUMBER		NUMBER(5)

```
Select Run SQL Command Line
Connected.
SQL> create table employee(firstname varchar2(15),midname varchar2(2),lastname varchar2(15),ssn char(9),birthday date,address varchar2(50),sex char(1),salary number(7),supervisorssn char(9),departmentnumber number(5));
Table created.

SQL> desc employee;
-----
Name                               Null?   Type
-----
FIRSTNAME                          VARCHAR2(15)
MIDNAME                             VARCHAR2(2)
LASTNAME                           VARCHAR2(15)
SSN                                 CHAR(9)
BIRTHDAY                           DATE
ADDRESS                             VARCHAR2(50)
SEX                                 CHAR(1)
SALARY                              NUMBER(7)
SUPERVISORSSN                       CHAR(9)
DEPARTMENTNUMBER                     NUMBER(5)

SQL> create table department (departmentname varchar2(15),departmentnumber number(5),managerssn char(9),managerstartdate date);
Table created.

SQL> desc department;
-----
Name                               Null?   Type
-----
DEPARTMENTNAME                     VARCHAR2(15)
DEPARTMENTNUMBER                     NUMBER(5)
MANAGERSSN                          CHAR(9)
MANAGERSTARTDATE                     DATE

SQL> create table project(projectname varchar2(15),projectnumber number(5),projectlocation varchar2(15),departmentnumber number(5));
Table created.

SQL> desc project;
-----
Name                               Null?   Type
-----
PROJECTNAME                         VARCHAR2(15)
PROJECTNUMBER                       NUMBER(5)
PROJECTLOCATION                       VARCHAR2(15)
DEPARTMENTNUMBER                     NUMBER(5)

SQL>
```

## Question1:

*Insert the data given in the table to employee, department and project tables*

SQL> insert into department values ('&depanme',&depno,'&mgrssn','&mgrdate');

Enter value for depame: Manufacture

Enter value for depno: 1

Enter value for mgrssn: 888665555

Enter value for mgrdate: 19-JUN-71

old 1: insert into department values ('&depanme',&depno,'&mgrssn','&mgrdate')

new 1: insert into department values ('Manufacture',1,'888665555','19-JUN-71')

1 row created.

SQL> insert into department values ('&depanme',&depno,'&mgrssn','&mgrdate');

Enter value for depame: Administration

Enter value for depno: 2

Enter value for mgrssn: 543216789

Enter value for mgrdate: 04-JAN-99

old 1: insert into department values ('&depanme',&depno,'&mgrssn','&mgrdate')

new 1: insert into department values ('Administration',2,'543216789','04-JAN-99')

1 row created.

SQL> insert into department values ('&depanme',&depno,'&mgrssn','&mgrdate');

Enter value for depame: Headquarter

Enter value for depno: 3

Enter value for mgrssn: 55443321  
 Enter value for mgrdate: 22-SEP-55  
 old 1: insert into department values ('&depanme',&depno,'&mgrssn','&mgrdate')  
 new 1: insert into department values ('Headquarter',3,'55443321','22-SEP-55')

1 row created.

SQL> insert into department values ('&depanme',&depno,'&mgrssn','&mgrdate');  
 Enter value for depanme: Finance  
 Enter value for depno: 4  
 Enter value for mgrssn: 987654321  
 Enter value for mgrdate: 01-JAN-85  
 old 1: insert into department values ('&depanme',&depno,'&mgrssn','&mgrdate')  
 new 1: insert into department values ('Finance',4,'987654321','01-JAN-85')

1 row created.

SQL> insert into department values ('&depanme',&depno,'&mgrssn','&mgrdate');  
 Enter value for depanme: Research  
 Enter value for depno: 5  
 Enter value for mgrssn: 333445555  
 Enter value for mgrdate: 22-MAY-78  
 old 1: insert into department values ('&depanme',&depno,'&mgrssn','&mgrdate')  
 new 1: insert into department values ('Research',5,'333445555','22-MAY-78')

1 row created.

SQL> select \* from department;

DEPARTMENTNAME	DEPARTMENTNUMBER	MANAGERSS	MANAGERST
Manufacture	1	888665555	19-JUN-71
Administration	2	543216789	04-JAN-99
Headquarter	3	55443321	22-SEP-55
Finance	4	987654321	01-JAN-85
Research	5	333445555	22-MAY-78

SQL> desc project;

Name	Null?	Type
PROJECTNAME		VARCHAR2(15)
PROJECTNUMBER		NUMBER(5)
PROJECTLOCATION		VARCHAR2(15)
DEPARTMENTNUMBER		NUMBER(5)

SQL> insert into project values('&praname',&number,'&proloc',&depno);

Enter value for pronaame: ProjectA  
Enter value for number: 3388  
Enter value for proloc: Houston  
Enter value for depno: 1  
old 1: insert into project values('&pronaame',&number,'&proloc',&depno)  
new 1: insert into project values('ProjectA',3388,'Houston',1)

1 row created.

SQL> insert into project values('&pronaame',&number,'&proloc',&depno);  
Enter value for pronaame: ProjectB  
Enter value for number: 1945  
Enter value for proloc: Salt Lake City  
Enter value for depno: 3  
old 1: insert into project values('&pronaame',&number,'&proloc',&depno)  
new 1: insert into project values('ProjectB',1945,'Salt Lake City',3)

1 row created.

SQL> insert into project values('&pronaame',&number,'&proloc',&depno);  
Enter value for pronaame: ProjectC  
Enter value for number: 6688  
Enter value for proloc: Houston  
Enter value for depno: 5  
old 1: insert into project values('&pronaame',&number,'&proloc',&depno)  
new 1: insert into project values('ProjectC',6688,'Houston',5)

1 row created.

SQL> insert into project values('&pronaame',&number,'&proloc',&depno);  
Enter value for pronaame: ProjectD  
Enter value for number: 2423  
Enter value for proloc: Bellaire  
Enter value for depno: 4  
old 1: insert into project values('&pronaame',&number,'&proloc',&depno)  
new 1: insert into project values('ProjectD',2423,'Bellaire',4)

1 row created.

SQL> insert into project values('&pronaame',&number,'&proloc',&depno);  
Enter value for pronaame: ProjectE  
Enter value for number: 7745  
Enter value for proloc: Sugarland  
Enter value for depno: 5  
old 1: insert into project values('&pronaame',&number,'&proloc',&depno)  
new 1: insert into project values('ProjectE',7745,'Sugarland',5)

1 row created.

```
SQL> insert into project values('&prname',&number,&proloc,&depno);
Enter value for prname: ProjectF
Enter value for number: 1566
Enter value for proloc: Salt Lake City
Enter value for depno: 3
old 1: insert into project values('&prname',&number,&proloc,&depno)
new 1: insert into project values('ProjectF',1566,'Salt Lake City',3)
```

1 row created.

```
SQL> insert into project values('&prname',&number,&proloc,&depno);
Enter value for prname: ProjectG
Enter value for number: 1234
Enter value for proloc: New York
Enter value for depno: 2
old 1: insert into project values('&prname',&number,&proloc,&depno)
new 1: insert into project values('ProjectG',1234,'New York',2)
```

1 row created.

```
SQL> insert into project values('&prname',&number,&proloc,&depno);
Enter value for prname: ProjectH
Enter value for number: 3467
Enter value for proloc: Stafford
Enter value for depno: 4
old 1: insert into project values('&prname',&number,&proloc,&depno)
new 1: insert into project values('ProjectH',3467,'Stafford',4)
```

1 row created.

```
SQL> insert into project values('&prname',&number,&proloc,&depno);
Enter value for prname: ProjectI
Enter value for number: 4345
Enter value for proloc: Chicago
Enter value for depno: 1
old 1: insert into project values('&prname',&number,&proloc,&depno)
new 1: insert into project values('ProjectI',4345,'Chicago',1)
```

1 row created.

```
SQL> insert into project values('&prname',&number,&proloc,&depno);
Enter value for prname: ProjectJ
Enter value for number: 2212
```

Enter value for proloc: San Francisco

Enter value for depno: 2

old 1: insert into project values('&prname',&number,'&proloc',&depno)

new 1: insert into project values('ProjectJ',2212,'San Francisco',2)

1 row created.

SQL> desc employee;

Name	Null?	Type
-----		
FIRSTNAME		VARCHAR2(15)
MIDNAME		VARCHAR2(2)
LASTNAME		VARCHAR2(15)
SSN		CHAR(9)
BIRTHDAY		DATE
ADDRESS		VARCHAR2(50)
SEX		CHAR(1)
SALARY		NUMBER(7)
SUPERVISORSSN		CHAR(9)
DEPARTMENTNUMBER		NUMBER(5)

SQL> insert into employee

values('&firstname','&midname','&lastname','&ssn','&birthday','&address','&sex','&salary','&supervisionsn','&departmentnumber);

Enter value for firstname: Doug

Enter value for midname: E

Enter value for lastname: Gilbert

Enter value for ssn: 554433221

Enter value for birthday: 09-jun-60

Enter value for address: 11 S 59 E,Salt Lake City,UT

Enter value for sex: M

Enter value for salary: 80000

Enter value for supervisionssn: NULL

Enter value for departmentnumber: 3

old 1: insert into employee

values('&firstname','&midname','&lastname','&ssn','&birthday','&address','&sex','&salary','&supervisionsn','&departmentnumber)

new 1: insert into employee values('Doug','E','Gilbert','554433221','09-jun-60','11 S 59 E,Salt Lake City,UT','M',80000,'NULL',3)

1 row created.

SQL> insert into employee

values('&firstname','&midname','&lastname','&ssn','&birthday','&address','&sex','&salary','&supervisionsn','&departmentnumber);

Enter value for firstname: Joyce

Enter value for midname:  
Enter value for lastname: PAN  
Enter value for ssn: 543216789  
Enter value for birthday: 07-FEB-78  
Enter value for address: 35 S 18 E,Salt Lake City,UT  
Enter value for sex: F  
Enter value for salary: 70000  
Enter value for supervisionssn: NULL  
Enter value for departmentnumber: 2  
old 1: insert into employee  
values('&firstname','&midname','&lastname','&ssn','&birthday','&address','&sex','&salary','&supervisions  
sn','&departmentnumber)  
new 1: insert into employee values('Joyce','','PAN','543216789','07-FEB-78','35 S 18 E,Salt Lake  
City,UT','F',70000,'NULL',2)

1 row created.

SQL> insert into employee  
values('&firstname','&midname','&lastname','&ssn','&birthday','&address','&sex','&salary','&supervisions  
sn','&departmentnumber);  
Enter value for firstname: Frankin  
Enter value for midname: T  
Enter value for lastname: Wong  
Enter value for ssn: 333445555  
Enter value for birthday: 08-dec-45  
Enter value for address: 638 Voss,Houston,TX  
Enter value for sex: M  
Enter value for salary: 40000  
Enter value for supervisionssn: 554433221  
Enter value for departmentnumber: 5  
old 1: insert into employee  
values('&firstname','&midname','&lastname','&ssn','&birthday','&address','&sex','&salary','&supervisions  
sn','&departmentnumber)  
new 1: insert into employee values('Frankin','T','Wong','333445555','08-dec-45','638  
Voss,Houston,TX','M',40000,'554433221',5)

1 row created.

SQL> insert into employee  
values('&firstname','&midname','&lastname','&ssn','&birthday','&address','&sex','&salary','&supervisions  
sn','&departmentnumber);  
Enter value for firstname: Jennifer  
Enter value for midname: S  
Enter value for lastname: Wallace  
Enter value for ssn: 987654321  
Enter value for birthday: 20-JUN-31



Enter value for address: 291 Berry,Bellaire,TX

Enter value for sex: M

Enter value for salary: 43000

Enter value for supervisionssn: 554433221

Enter value for departmentnumber: 4

old 1: insert into employee

values('&firstname','&midname','&lastname','&ssn','&birthday','&address','&sex','&salary','&supervisionsn','&departmentnumber)

new 1: insert into employee values('Jennifer','S','Wallace','987654321','20-JUN-31','291 Berry,Bellaire,TX','M',43000,'554433221',4)

1 row created.

SQL> insert into employee

values('&firstname','&midname','&lastname','&ssn','&birthday','&address','&sex','&salary','&supervisionsn','&departmentnumber);

Enter value for firstname: John

Enter value for midname: B

Enter value for lastname: Smith

Enter value for ssn: 123456789

Enter value for birthday: 09-jan-55

Enter value for address: 731 Fondren,Houston,TX

Enter value for sex: M

Enter value for salary: 30000

Enter value for supervisionssn: 333445555

Enter value for departmentnumber: 5

old 1: insert into employee

values('&firstname','&midname','&lastname','&ssn','&birthday','&address','&sex','&salary','&supervisionsn','&departmentnumber)

new 1: insert into employee values('John','B','Smith','123456789','09-jan-55','731 Fondren,Houston,TX','M',30000,'333445555',5)

1 row created.

SQL> insert into employee

values('&firstname','&midname','&lastname','&ssn','&birthday','&address','&sex','&salary','&supervisionsn','&departmentnumber);

Enter value for firstname: Ramesh

Enter value for midname: K

Enter value for lastname: Narayan

Enter value for ssn: 666884444

Enter value for birthday: 15-SEP-52

Enter value for address: 975 Fire Oak,Humble,TX

Enter value for sex: M

Enter value for salary: 38000

Enter value for supervisionssn: 333445555

Enter value for departmentnumber: 5

```
old 1: insert into employee
values('&firstname','&midname','&lastname','&ssn','&birthday','&address','&sex','&salary','&supervisions
sn','&departmentnumber)
new 1: insert into employee values('Ramesh','K','Narayan','666884444','15-SEP-52','975 Fire
Oak,Humble,TX','M',38000,'333445555',5)
```

1 row created.

```
SQL> insert into employee
values('&firstname','&midname','&lastname','&ssn','&birthday','&address','&sex','&salary','&supervisions
sn','&departmentnumber);
Enter value for firstname: Joyce
Enter value for midname: A
Enter value for lastname: English
Enter value for ssn: 453453453
Enter value for birthday: 31-jul-62
Enter value for address: 5631 Rice,Houston,TX
Enter value for sex: F
Enter value for salary: 25000
Enter value for supervisionssn: 333445555
Enter value for departmentnumber: 5
old 1: insert into employee
values('&firstname','&midname','&lastname','&ssn','&birthday','&address','&sex','&salary','&supervisions
sn','&departmentnumber)
new 1: insert into employee values('Joyce','A','English','453453453','31-jul-62','5631
Rice,Houston,TX','F',25000,'333445555',5)
```

1 row created.

```
SQL> insert into employee
values('&firstname','&midname','&lastname','&ssn','&birthday','&address','&sex','&salary','&supervisions
sn','&departmentnumber);
Enter value for firstname: James
Enter value for midname: E
Enter value for lastname: Borg
Enter value for ssn: 888665555
Enter value for birthday: 10-nov-27
Enter value for address: 450 Stone,Houstone,TX
Enter value for sex: M
Enter value for salary: 55000
Enter value for supervisionssn: 543216789
Enter value for departmentnumber: 1
old 1: insert into employee
values('&firstname','&midname','&lastname','&ssn','&birthday','&address','&sex','&salary','&supervisions
sn','&departmentnumber)
new 1: insert into employee values('James','E','Borg','888665555','10-nov-27','450
Stone,Houstone,TX','M',55000,'543216789',1)
```

1 row created.

```
SQL> insert into employee
values('&firstname','&midname','&lastname','&ssn','&birthday','&address','&sex','&salary','&supervisions
sn','&departmentnumber);
Enter value for firstname: Alicia
Enter value for midname: J
Enter value for lastname: Zelaya
Enter value for ssn: 999887777
Enter value for birthday: 19-jul-58
Enter value for address: 3321 Castle, Spring, TX
Enter value for sex: F
Enter value for salary: 25000
Enter value for supervisionssn: 987654321
Enter value for departmentnumber: 4
old 1: insert into employee
values('&firstname','&midname','&lastname','&ssn','&birthday','&address','&sex','&salary','&supervisions
sn','&departmentnumber)
new 1: insert into employee values('Alicia','J','Zelaya','999887777','19-jul-58','3321
Castle, Spring, TX','F',25000,'987654321',4)
```

1 row created.

```
SQL> insert into employee
values('&firstname','&midname','&lastname','&ssn','&birthday','&address','&sex','&salary','&supervisions
sn','&departmentnumber);
Enter value for firstname: Ahmad
Enter value for midname: V
Enter value for lastname: Jabbar
Enter value for ssn: 987987987
Enter value for birthday: 29-mar-59
Enter value for address: 980 Dallas, Houston, TX
Enter value for sex: M
Enter value for salary: 25000
Enter value for supervisionssn: 987654321
Enter value for departmentnumber: 4
old 1: insert into employee
values('&firstname','&midname','&lastname','&ssn','&birthday','&address','&sex','&salary','&supervisions
sn','&departmentnumber)
new 1: insert into employee values('Ahmad','V','Jabbar','987987987','29-mar-59','980
Dallas, Houston, TX','M',25000,'987654321',4)
```

1 row created.

```
Run SQL Command Line
SQL> insert into department values ('Manufacture',1,'88865555','19-JUN-71');
1 row created.

SQL> insert into department values ('Administration',2,'543216789','04-JAN-99');
1 row created.

SQL> insert into department values ('Headquarter',3,'55443321','22-SEP-55');
1 row created.

SQL> insert into department values ('Finance',4,'987654321','01-JAN-85');
1 row created.

SQL> insert into department values ('Research',5,'333445555','22-MAY-78');
1 row created.

SQL> select * from department;

DEPARTMENTNAME  DEPARTMENTNUMBER  MANAGERSS  MANAGERST
-----
Manufacture      1 88865555 19-JUN-71
Administration   2 543216789 04-JAN-99
Headquarter      3 55443321 22-SEP-55
Finance          4 987654321 01-JAN-85
Research         5 333445555 22-MAY-78

SQL> desc project;
Name                               Null?    Type
-----
PROJECTNAME                       VARCHAR2(15)
PROJECTNUMBER                     NUMBER(5)
PROJECTLOCATION                    VARCHAR2(15)
DEPARTMENTNUMBER                  NUMBER(5)

SQL> insert into project values('ProjectA',3388,'Houston',1);
1 row created.

SQL> insert into project values('&prname','&number','&proloc','&depro');
Enter value for prname: ProjectB
Enter value for number: 1945
Enter value for proloc: Salt Lake City
Enter value for depro: 3
old 1: insert into project values('&prname','&number','&proloc','&depro')
new 1: insert into project values('ProjectB',1945,'Salt Lake City',3)
1 row created.

Run SQL Command Line
SQL> insert into project values('ProjectC',6688,'Houston',5);
1 row created.

SQL> insert into project values('ProjectD',2423,'Bellaire',4);
1 row created.

SQL> insert into project values('ProjectE',7745,'Sugarland',5);
1 row created.

SQL> insert into project values('ProjectF',1566,'Salt Lake City',3);
1 row created.

SQL> insert into project values('ProjectG',1234,'New York',2);
1 row created.

SQL> insert into project values('ProjectH',3467,'Stafford',4);
1 row created.

SQL> insert into project values('ProjectI',4345,'Chicago',1);
1 row created.

SQL> insert into project values('ProjectJ',2212,'San Francisco',2);
1 row created.

SQL> insert into employee values('Doug','E','Gilbert','554433221','09-Jun-60','11 S 59 E,Salt Lake City,UT','M',80000,'NULL',3);
1 row created.

SQL> insert into employee values('Joyce','','PAN','543216789','07-FEB-78','35 S 18 E,Salt Lake City,UT','F',70000,'NULL',2);
1 row created.

SQL> insert into employee values('Frankin','T','Wong','333445555','08-dec-45','638 Voss,Houston,TX','M',40000,'554433221',5);
1 row created.

SQL> insert into employee values('Jennifer','S','Wallace','987654321','20-JUN-31','291 Berry,Bellaire,TX','M',43000,'554433221',4);
1 row created.

SQL>
```

```
Run SQL Command Line
SQL> insert into employee values('John','B','Smith','123456789','09-jan-55','731 Fondren,Houston,TX','M',30000,'333445555',5);
1 row created.

SQL> insert into employee values('Ramesh','K','Narayan','666884444','15-SEP-52','975 Fire Oak,Humble,TX','M',38000,'333445555',5);
1 row created.

SQL> insert into employee values('Joyce','A','English','453453453','31-jul-62','5631 Rice,Houston,TX','F',25000,'333445555',5);
1 row created.

SQL> insert into employee values('James','E','Borg','888655555','10-nov-27','450 Stone,Houston,TX','M',55000,'543216789',1);
1 row created.

SQL> insert into employee values('Alicia','J','Zelaya','999887777','19-jul-58','3321 Castle,Spring,TX','F',25000,'987654321',4);
1 row created.

SQL> insert into employee values('Ahmad','V','Jabbar','987987987','29-mar-59','980 Dallas,Houston,TX','M',25000,'987654321',4);
1 row created.

SQL> select * from employee;

FIRSTNAME      MI LASTNAME      SSN      BIRTHDAY
-----
ADDRESS                      S      SALARY SUPERVISO
-----
DEPARTMENTNUMBER
-----
Doug          E Gilbert      554433221 09-JUN-60
11 S 59 E,Salt Lake City,UT      M      80000 NULL
3

Joyce          PAN          543216789 07-FEB-78
35 S 18 E,Salt Lake City,UT      F      70000 NULL
2

FIRSTNAME      MI LASTNAME      SSN      BIRTHDAY
-----
ADDRESS                      S      SALARY SUPERVISO
-----
DEPARTMENTNUMBER
-----
Frankin       T Wong        333445555 08-DEC-45
638 Voss,Houston,TX      M      40000 554433221
5
```

## Question 2:

*Display all the employee's information*

SQL> select \* from employee;

FIRSTNAME	MI	LASTNAME	SSN	BIRTHDAY
-----				
ADDRESS			S	SALARY SUPERVISO
-----				
DEPARTMENTNUMBER				
-----				
Doug	E	Gilbert	554433221	09-JUN-60
11 S 59 E,Salt Lake City,UT			M	80000 NULL
3				
Joyce	PAN		543216789	07-FEB-78
35 S 18 E,Salt Lake City,UT			F	70000 NULL
2				
-----				
FIRSTNAME	MI	LASTNAME	SSN	BIRTHDAY
-----				
ADDRESS			S	SALARY SUPERVISO
-----				
DEPARTMENTNUMBER				
-----				

Frankin T Wong 333445555 08-DEC-45  
638 Voss,Houston,TX M 40000 554433221  
5

Jennifer S Wallace 987654321 20-JUN-31  
291 Berry,Bellaire,TX M 43000 554433221

FIRSTNAME MI LASTNAME SSN BIRTHDAY  
-----  
ADDRESS S SALARY SUPERVISOR  
-----  
DEPARTMENTNUMBER  
-----  
4

John B Smith 123456789 09-JAN-55  
731 Fondren,Houston,TX M 30000 333445555  
5

Ramesh K Narayan 666884444 15-SEP-52  
  
FIRSTNAME MI LASTNAME SSN BIRTHDAY  
-----  
ADDRESS S SALARY SUPERVISOR  
-----  
DEPARTMENTNUMBER  
-----  
975 Fire Oak,Humble,TX M 38000 333445555  
5

Joyce A English 453453453 31-JUL-62  
5631 Rice,Houston,TX F 25000 333445555  
5

FIRSTNAME MI LASTNAME SSN BIRTHDAY  
-----  
ADDRESS S SALARY SUPERVISOR  
-----  
DEPARTMENTNUMBER  
-----  
James E Borg 888665555 10-NOV-27  
450 Stone,Houston,TX M 55000 543216789  
1

Alicia J Zelaya 999887777 19-JUL-58  
 3321 Castle, Spring, TX F 25000 987654321  
 4

```

FIRSTNAME  MI LASTNAME  SSN  BIRTHDAY
-----
ADDRESS                      S  SALARY SUPERVISO
-----
DEPARTMENTNUMBER
-----

```

Ahmad V Jabbar 987987987 29-MAR-59  
 980 Dallas, Houston, TX M 25000 987654321  
 4

10 rows selected.

```

Run SQL Command Line
Jennifer S Wallace 987654321 20-JUN-31 43000 554433221
291 Berry, Bellaire, TX M
FIRSTNAME  MI LASTNAME  SSN  BIRTHDAY
-----
ADDRESS                      S  SALARY SUPERVISO
-----
DEPARTMENTNUMBER
-----
4

John B Smith 123456789 09-JAN-55 30000 333445555
731 Fondren, Houston, TX M
FIRSTNAME  MI LASTNAME  SSN  BIRTHDAY
-----
ADDRESS                      S  SALARY SUPERVISO
-----
DEPARTMENTNUMBER
-----
975 Fire Oak, Humble, TX M 30000 333445555
5

Joyce A English 453453453 31-JUL-62 25000 333445555
3631 Rice, Houston, TX F
5

James E Borg 888665555 10-NOV-27 55000 543216789
450 Stone, Houston, TX M
1

Alicia J Zelaya 999887777 19-JUL-58 25000 987654321
3321 Castle, Spring, TX F
4

FIRSTNAME  MI LASTNAME  SSN  BIRTHDAY
-----
ADDRESS                      S  SALARY SUPERVISO
-----
DEPARTMENTNUMBER
-----

```

### Question 3:

**Display Employee name along with his SSN and Supervisor SSN**

SQL> select firstname, midname, lastname, ssn, supervisorssn from employee;

```

FIRSTNAME  MI LASTNAME  SSN  SUPERVISO
-----
Doug E Gilbert 554433221 NULL
Joyce PAN 543216789 NULL

```

Frankin	T Wong	333445555	554433221
Jennifer	S Wallace	987654321	554433221
John	B Smith	123456789	333445555
Ramesh	K Narayan	666884444	333445555
Joyce	A English	453453453	333445555
James	E Borg	888665555	543216789
Alicia	J Zelaya	999887777	987654321
Ahmad	V Jabbar	987987987	987654321

10 rows selected.

#### Question 4:

**Alter Table department add column DepartmentPhoneNum of NUMBER data type and insert values into this column**

SQL> alter table department add departmentphno number(10);

Table altered.

SQL> desc employee

Name	Null?	Type
FIRSTNAME		VARCHAR2(15)
MIDNAME		VARCHAR2(2)
LASTNAME		VARCHAR2(15)
SSN		CHAR(9)
BIRTHDAY		DATE
ADDRESS		VARCHAR2(50)
SEX		CHAR(1)
SALARY		NUMBER(7)
SUPERVISORSSN		CHAR(9)
DEPARTMENTNUMBER		NUMBER(5)

SQL> update department set departmentphno=9684753201;

5 rows updated.

#### Question 5:

**Modify the field name DepartmentPhoneNum of departments table to PhNo.**

SQL> alter table department rename column departmentphno to phno;

Table altered.

#### Question 6:



***Rename Table Department as DEPT***

SQL> rename department to deptt;

Table renamed.

**Question 7:**

***Alter Table department remove column DepartmentPhoneNum***

SQL> alter table deptt drop column phno;

Table altered.

**Question 8:**

***Create a table COPYOFDEPT as a copy of the table DEPT***

SQL> create table copyofdept as select \* from deptt;

Table created.

**Question 9:**

***Delete all the rows from COPYOFDEPT table***

SQL> delete from copyofdept;

5 rows deleted.

**Question 10:**

***Remove COPYOFDEPT table***

SQL> drop table copyofdept;

Table dropped.

```
Run SQL Command Line
FIRSTNAME MI LASTNAME SSN BIRTHDAY
-----
ADDRESS S SALARY SUPERVISO
DEPARTMENTNUMBER
-----
Ahmad V Jabbar 987987987 29-MAR-59
988 Dallas,Houston, TX H 25000 987654321
4
10 rows selected.

SQL> select firstname,midname,lastname,ssn,supervisorssn from employee;

FIRSTNAME MI LASTNAME SSN SUPERVISO
-----
Doug E Gilbert 554433221 NULL
Joyce PAW 543216789 NULL
Frankin T Wong 333445555 554433221
Jennifer S Wallace 987654321 554433221
John B Smith 123456789 333445555
Ramesh K Narayan 666884444 333445555
Joyce A English 453453453 333445555
James E Borg 888665555 543216789
Alicia J Zelaya 999887777 987654321
Ahmad V Jabbar 987987987 987654321
10 rows selected.

SQL> alter table department add departmentphno number(10);

Table altered.

SQL> desc employee;
Name Null? Type
-----
FIRSTNAME VARCHAR2(15)
MIDNAME VARCHAR2(2)
LASTNAME VARCHAR2(15)
SSN CHAR(9)
BIRTHDAY DATE
ADDRESS VARCHAR2(50)
SEX CHAR(1)
SALARY NUMBER(7)
SUPERVISORSSN CHAR(9)
DEPARTMENTNUMBER NUMBER(5)

SQL> update department set departmentphno=9684753201;

5 rows updated.
```

```
Run SQL Command Line
SQL> alter table department rename column departmentphno to phno;

Table altered.

SQL> rename department to deptt;

Table renamed.

SQL> alter table deptt drop column phno;

Table altered.

SQL> create table copyofdept as select * from deptt;

Table created.

SQL> delete from copyofdept;

5 rows deleted.

SQL> drop table copyofdept;

Table dropped.

SQL>
```