

```
CREATE TABLE DEPARTMENT_63 (DNO NUMBER(2) PRIMARY KEY, DNAME VARCHAR(20) NOT NULL, EMP_COUNT VARCHAR(3), DEPT_HOD VARCHAR (10));
```

```
SQL> DESC DEPARTMENT_63;
```

Name	Null?	Type
DNO	NOT NULL	NUMBER(2)
DNAME	NOT NULL	VARCHAR2(20)
EMP_COUNT		VARCHAR2(3)
DEPT_HOD		VARCHAR2(10)

```
CREATE TABLE EMPLOYEE_63 (ENO VARCHAR(4) PRIMARY KEY CHECK (ENO LIKE 'E%'), ENAME VARCHAR(20) NOT NULL, SALARY NUMBER(6) CHECK(SALARY !=0), DNO NUMBER(2) NOT NULL REFERENCES DEPARTMENT_63 (DNO), MGRNO VARCHAR(4), DOJ DATE, DESG VARCHAR(20), ADDRESS VARCHAR(20),CITY VARCHAR(10) CHECK(CITY IN ('COCHIN', 'MUMBAI', 'CHENNAI', 'DELHI')), PINCODE NUMBER(6) );
```

```
SQL> DESC EMPLOYEE_63;
```

Name	Null?	Type
ENO	NOT NULL	VARCHAR2(4)
ENAME	NOT NULL	VARCHAR2(20)
SALARY		NUMBER(6)
DNO	NOT NULL	NUMBER(2)
MGRNO		VARCHAR2(4)
DOJ		DATE
DESG		VARCHAR2(20)
ADDRESS		VARCHAR2(20)
CITY		VARCHAR2(10)
PINCODE		NUMBER(6)

```
INSERT INTO DEPARTMENT_63 VALUES(2, 'HR', 8, 'DAVID');
```

```
INSERT INTO DEPARTMENT_63 VALUES(3, 'IT', 15, 'EMMA');
```

```
INSERT INTO DEPARTMENT_63 VALUES(4, 'MARKETING', 12, 'SARAH');
```

```
INSERT INTO DEPARTMENT_63 VALUES(5, 'SALES', 20, 'RICHARD');
```

```
INSERT INTO EMPLOYEE_63 VALUES ('&ENO', '&ENAME', &SALARY, &DNO, '&MGRNO', '&DOJ',
'&DESG', '&ADDRESS', '&CITY', &PINCODE);
```

```
SQL> SELECT * FROM DEPT_63;
DNO DNAME      EMP_COUNT DEPT_HOD
```

```
-----
1   FINANCE      10        JOHN
2   HR           8         DAVID
3   IT           15        EMMA
4   MARKETING    12        SARAH
5   SALES        20        RICHARD
6   R&D          5         ALEX
7   OPERATIONS   18        KEVIN
8   PRODUCTION   25        MANOJ
9   QUALITY       7        RAJESH
10  ADMIN        6         HARI
```

10 rows selected.

```
SQL> INSERT INTO EMPLOYEE_63 VALUES ('&ENO', '&ENAME', &SALARY, &DNO, '&MGRNO',
'&DOJ', '&DESG', '&ADDRESS', '&CITY', &PINCODE);
```

Enter value for eno: E010

Enter value for ename: ALEX

Enter value for salary: 60000

Enter value for dno: 10

Enter value for mgrno:

Enter value for doj: 10-JAN-2023

Enter value for desg: ADMIN OFFICER

Enter value for address: 888 ELMWOOD DR

Enter value for city: COCHIN

Enter value for pincode: 890123

```
old 1: INSERT INTO EMPLOYEE_63 VALUES ('&ENO', '&ENAME', &SALARY, &DNO, '&MGRNO',
'&DOJ', '&DESG', '&ADDRESS', '&CITY', &PINCODE)
```

```
new 1: INSERT INTO EMPLOYEE_63 VALUES ('E010', 'ALEX', 60000, 10, 'NULL', '10-JAN-2023',
'ADMIN OFFICER', '888 ELMWOOD DR', 'COCHIN', 890123)
```

1 row created.

```
SQL> SELECT * FROM EMPLOYEE_63;
```

ENO	ENAME	SALARY	DNO	MGRN	DOJ	DESG	ADDRESS	CITY	PINCODE
E001	MANOJ	60000	3	E002	15-JAN-22	SOFTWARE ENGINEER	13 MAIN ST	MUMBAI	123456
E002	RAJESH	75000	3		01-MAY-20	MANAGER	456 ELM ST	CHENNAI	678950
E003	SARAH	45000	4	E002	10-AUG-21	SALES EXECUTIVE	789 OAK ST	DELHI	234565
E004	KEVIN	80000	5		28-FEB-23	SALES MANAGER	101 PINE ST	COCHIN	789301
E005	JOHN	90000	5	E002	20-NOV-19	SALES DIRECTOR	555 MAPLE ST	DELHI	34567
E006	DAVID	55000	6	E002	10-JUL-23	RESEARCH ANALYST	222 WILLOW ST	COCHIN	456784
E007	EMMA	70000	7	E005	05-SEP-20	OPERATION LEA	333 OAJWOOD RD	MUMBAI	567895
E008	RICHARD	65000	8		15-APR-21	PRODUCTION ENGG	444 CEDAR LN	DELHI	678906
E009	HARI	50000	9	E002	28-FEB-20	QUALITY ANALYST	777 BIRCH AVE	CHENNAI	789012
E010	ALEX	60000	10		10-JAN-23	ADMIN OFFICER	888 ELMWOOD DR	COCHIN	890123
E011	JACOB	40000	3	E002	12-JUN-21	SOFTWARE ENGINEER	989 SRK ST	DELHI	676832

ENO	ENAME	SALARY	DNO	MGRN	DOJ	DESG	ADDRESS	CITY	PINCODE
E012	SUNIL	45000	3		25-MAY-19	SOFTWARE ENGINEER	789 ARM ST	MUMBAI	674521
E013	BABU	55000	4		14-FEB-20	SALES EXECUTIVE	455 MGG AVE	CHENNAI	645218
E014	GOPAL	43000	4	E005	18-AUG-15	SALES EXECUTIVE	525 PARK ST	COCHIN	698541

14 rows selected.

//QUESTIONS

1

```
SQL> SELECT ENAME FROM EMPLOYEE_63 WHERE DOJ >'01-JAN-2005' AND DNO=5;
```

ENAME

```
-----  
KEVIN  
JOHN
```

2

```
SQL> SELECT ENAME FROM EMPLOYEE_63 WHERE DNO NOT IN 4;
```

```
ENAME  
-----
```

```
MANOJ  
RAJESH  
KEVIN  
JOHN  
DAVID  
EMMA  
RICHARD  
HARI  
ALEX  
JACOB  
SUNIL
```

11 rows selected.

3

```
SQL> SELECT E.ENAME FROM EMPLOYEE_63 E,DEPARTMENT_63 D WHERE E.DNO=D.DNO AND  
D.DNAME='SALES';
```

```
ENAME  
-----
```

```
KEVIN  
JOHN
```

4

```
SQL> SELECT ENAME FROM EMPLOYEE_63 WHERE MGRNO IS NULL;
```

```
ENAME  
-----
```

```
RAJESH  
KEVIN  
RICHARD  
ALEX
```

SUNIL
BABU

6 rows selected.

5

SQL> SELECT ENAME FROM EMPLOYEE_63 WHERE ENAME LIKE 'J__N%';

ENAME

JOHN

6

SQL> SELECT ENAME FROM EMPLOYEE_63 WHERE DOJ > '01-JAN-2020' AND DOJ < '01-JAN-2021';

ENAME

RAJESH

EMMA

HARI

BABU

7

SQL> SELECT 'EVERY YEAR ' || ENAME || ' EARNs ' || 12*SALARY FROM EMPLOYEE_63;

'EVERYYEAR'||ENAME||'EARNs'||12*SALARY

EVERY YEAR MANOJ EARNs 720000

EVERY YEAR RAJESH EARNs 900000

EVERY YEAR SARAH EARNs 540000

EVERY YEAR KEVIN EARNs 960000

EVERY YEAR JOHN EARNs 1080000

EVERY YEAR DAVID EARNs 660000

EVERY YEAR EMMA EARNs 840000

EVERY YEAR RICHARD EARNs 780000

EVERY YEAR HARI EARNs 600000

EVERY YEAR ALEX EARNs 720000

EVERY YEAR JACOB EARNs 480000

'EVERYYEAR'||ENAME||'EARNs'||12*SALARY

EVERY YEAR SUNIL EARNS 540000
EVERY YEAR BABU EARNS 660000
EVERY YEAR GOPAL EARNS 516000

14 rows selected.

8

SQL> SELECT COUNT(*) FROM EMPLOYEE_63;

COUNT(*)

14

9

SQL> SELECT DESG, MIN(SALARY) FROM EMPLOYEE_63 GROUP BY DESG;

DESG	MIN(SALARY)

SALES DIRECTOR	90000
OPERATION LEAD	70000
RESEARCH ANALYST	55000
PRODUCTION ENGG	65000
ADMIN OFFICER	60000
QUALITY ANALYST	50000
MANAGER	75000
SOFTWARE ENGINEER	40000
SALES MANAGER	80000
SALES EXECUTIVE	43000

10 rows selected.

10

SQL> SELECT ENAME, DNO, DESG, SALARY FROM EMPLOYEE_63 E WHERE SALARY>50000
AND SALARY > (SELECT MIN(SALARY) FROM EMPLOYEE_63 F WHERE E.DNO = F.DNO AND
E.DESG=F.DESG);

ENAME	DNO DESG	SALARY
BABU	4 SALES EXECUTIVE	55000
MANOJ	3 SOFTWARE ENGINEER	60000

11

SQL> SELECT ENAME, TO_CHAR(DOJ, 'DD/MM/YYYY') DOJ FROM EMPLOYEE_63;

ENAME	DOJ
MANOJ	15/01/2022
RAJESH	01/05/2020
SARAH	10/08/2021
KEVIN	28/02/2023
JOHN	20/11/2019
DAVID	10/07/2023
EMMA	05/09/2020
RICHARD	15/04/2021
HARI	28/02/2020
ALEX	10/01/2023
JACOB	12/06/2021

ENAME	DOJ
SUNIL	25/05/2019
BABU	14/02/2020
GOPAL	18/08/2015

14 rows selected.