Q. Create a table employee. The attributes of employee are empno, empname, place, desig, salary, dept_no, dept_name.

Set empno as primary key and also set 100000 as a default salary of employee

SQL> create table employee (empno int primary key, empname varchar(30), place varchar(30), desig varchar(20), salary int default 100000, dept_name varchar(20), dept_no int CHECK (dept_no >= 1 AND dept_no <= 10));

Table created.

SQL> desc employee;

Name	Null?	Type
EMPNO	NOT NULL	NUMBER(38)
EMPNAME		VARCHAR2(50)
PLACE		VARCHAR2(50)
DESIG		VARCHAR2(50)
SALARY		NUMBER(38)
DEPT_NO		NUMBER(38)
DEPT_NAME		VARCHAR2(30)

SQL> ALTER TABLE employee ADD CONSTRAINT chk_dept_no CHECK (dept_no >= 1 AND dept_no <= 10);

Table altered.

a. Display the empno, empname and salary.

Ans:

SQL> select empno, empname, salary from employee;

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    EMPNO EMPNAME                    SALARY

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       69 Vivek Nair              100000

       70 Zemeel Hassan            80000

       71 Ablin Joseph             35000

       61 Sumayya Maheen           40000

       51 Sem Stephen              30000

       40 Pronu Nair               15000

       45 Rohit Nair               10000

       13 Kiween Mathew            60000
```

8 rows selected.

b. Display all records of employee table

Ans:

SQL> select * from employee;

```
    EMPNO EMPNAME          PLACE          DESIG          SALARY DEPT_NAME        DEPT_NO

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       69 Vivek Nair       UK             CEO            100000          Finance            7

       70 Zemeel Hassan    Antartica      CTO             80000          Technical          4

       71 Ablin Joseph     USA            Officer         35000          Office          3

       61 Sumayya Maheen   Uganda         HR rep          40000          HR              5

       51 Sem Stephen      Somalia        Slave            8000          Worker          2

       40 Pronu Nair       Taiwan         Intern          15000           Worker         2

       45 Rohit Nair       Kuwait         Slave            7000          Worker          2

       13 Kiween Mathew    Japan          Intern          60000          Worker          2
```

8 rows selected.

c. Display the details of the employee whose salary is greater than 10000

Ans:

SQL> select * from employee where salary > 10000;

EMPNO	EMPNAME	PLACE	DESIG	SALARY	DEPT_NAME	DEPT_NO
69	Vivek Nair	UK	CEO	100000	Finance	7
70	Zemeel Hassan	Antartica	CTO	80000	Technical	4
71	Ablin Joseph	USA	Officer	35000	Office	3
61	Sumayya Maheen	Uganda	HR rep	40000	HR	5
40	Pronu Nair	Taiwan	Intern	15000	Worker	2

d. Increment the salary of 'officer' by 1000

Ans:

SQL> update employee set salary = salary + 1000 where desig = 'Officer';

1 row updated.

SQL> select * from employee ;

EMPNO	EMPNAME	PLACE	DESIG	SALARY	DEPT_NAME	DEPT_NO
69	Vivek Nair	UK	CEO	100000	Finance	7
70	Zemeel Hassan	Antartica	CTO	80000	Technical	4
71	Ablin Joseph	USA	Officer	36000	Office	3
61	Sumayya Maheen	Uganda	HR rep	40000	HR	5
51	Sem Stephen	Somalia	Slave	8000	Worker	2
40	Pronu Nair	Taiwan	Intern	15000	Worker	2
45	Rohit Nair	Kuwait	Slave	10000	Worker	2
13	Kiween Mathew	Japan	Intern	7000	Worker	2

8 rows selected.

e. Display the name and id of employee whose salary ranges between 10000 and 15000

Ans:

SQL> select empno, empname from employee where salary > 10000 and salary <= 15000;

```
    EMPNO EMPNAME
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       40 Pronu Nair
```

f. Display the employee details whose name start with 'A'

Ans:

SQL> select empname from employee where empname like 'A%';

```
EMPNAME
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Ablin Joseph
```

g. Change the salary of officer to 15000

Ans:

SQL> update employee set salary = 15000 where desig = 'Officer';

1 row updated.

SQL> select * from employee;

EMPNO	EMPNAME	PLACE	DESIG	SALARY	DEPT_NAME	DEPT_NO
69	Vivek Nair	UK	CEO	100000	Finance	7
70	Zemeel Hassan	Antartica	CTO	80000	Technical	4
71	Ablin Joseph	USA	Officer	15000	Office	3
61	Sumayya Maheen	Uganda	HR rep	40000	HR	5
51	Sem Stephen	Somalia	Slave	8000	Worker	2
40	Pronu Nair	Taiwan	Intern	15000	Worker	2
45	Rohit Nair	Kuwait	Slave	10000	Worker	2
13	Kiween Mathew	Japan	Intern	7000	Worker	2

8 rows selected.

h. Add a column district to the table

Ans:

SQL> alter table employee add district varchar(10);

Table altered.

i. Delete the column district

Ans:

SQL> alter table employee drop column district;

Table altered.

j. Modify the column name desig to designation

Ans:

SQL> alter table employee rename column desig to designation;

Table altered.

SQL> select * from employee;

EMPNO	EMPNAME	PLACE	DESIGNATION	SALARY	DEPT_NAME	DEPT_NO
69	Vivek Nair	UK	CEO	100000	Finance	7
70	Zemeel Hassan	Antartica	CTO	80000	Technical	4
71	Ablin Joseph	USA	Officer	15000	Office	3
61	Sumayya Maheen	Uganda	HR rep	40000	HR	5
51	Sem Stephen	Somalia	Slave	8000	Worker	2
40	Pronu Nair	Taiwan	Intern	15000	Worker	2
45	Rohit Nair	Kuwait	Slave	10000	Worker	2
13	Kiween Mathew	Japan	Intern	7000	Worker	2

8 rows selected.

ER DIAGRAM: