**Q. Create department table with the following structure.**

|  |  |
| --- | --- |
| NAME | TYPE |
| DEPTNO | NUMBER |
| DEPTNAME | VARCHAR2(10) |
| LOCATION | VARCHAR2(10) |

**a) Add column designation to the department table.**

SQL> CREATE TABLE DEPARTMENT(DEPTNO NUMBER(10) PRIMARY KEY,DEPTNAME VARCHAR(20),LOCATION VARCHAR(20));

Table created.

SQL> ALTER TABLE DEPARTMENT ADD(DESIGNATION VARCHAR(20));

Table altered.

**b) Insert values into the table.**

SQL> INSERT INTO DEPARTMENT VALUES(&DEPTNO,'&DEPTNAME','&LOCATION','&DESIGNATION');

Enter value for deptno: 10

Enter value for deptname: SCIENCE

Enter value for location: KERALA

Enter value for designation: FACULTY

old 1: INSERT INTO DEPARTMENT VALUES(&DEPTNO,'&DEPTNAME','&LOCATION','&DESIGNATION')

new 1: INSERT INTO DEPARTMENT VALUES(10,'SCIENCE','KERALA','FACULTY')

1 row created.

SQL> INSERT INTO DEPARTMENT VALUES(&DEPTNO,'&DEPTNAME','&LOCATION','&DESIGNATION');

Enter value for deptno: 9

Enter value for deptname: MCA

Enter value for location: PONKUNNAM

Enter value for designation: TEACHER

old 1: INSERT INTO DEPARTMENT VALUES(&DEPTNO,'&DEPTNAME','&LOCATION','&DESIGNATION')

new 1: INSERT INTO DEPARTMENT VALUES(9,'MCA','PONKUNNAM','TEACHER')

1 row created.

SQL> INSERT INTO DEPARTMENT VALUES(&DEPTNO,'&DEPTNAME','&LOCATION','&DESIGNATION');

Enter value for deptno: 11

Enter value for deptname: BCA

Enter value for location: KERALA

Enter value for designation: FACULTY

old 1: INSERT INTO DEPARTMENT VALUES(&DEPTNO,'&DEPTNAME','&LOCATION','&DESIGNATION')

new 1: INSERT INTO DEPARTMENT VALUES(11,'BCA','KERALA','FACULTY')

1 row created.

SQL> SELECT \* FROM DEPARTMENT;

DEPNO DEPTNAME LOCATION DESIGNATION

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10 SCIENCE KERALA FACULTY

9 MCA PONKUNNAM TEACHER

11 BCA KERALA FACULTY

**c) List the records of department table grouped by deptno.**

SQL> SELECT DEPNO,DEPTNAME FROM DEPARTMENT GROUP BY DEPNO,DEPTNAME;

DEPNO DEPTNAME

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10 SCIENCE

9 MCA

11 BCA

**d) Update the record where deptno is 9.**

SQL> UPDATE DEPARTMENT SET DEPTNAME='MATHS' WHERE DEPNO=9;

1 row updated.

SQL> SELECT \* FROM DEPARTMENT;

DEPNO DEPTNAME LOCATION DESIGNATION

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10 SCIENCE KERALA FACULTY

9 MATHS PONKUNNAM TEACHER

11 BCA KERALA FACULTY

**e) Delete any column data from the table.**

SQL> ALTER TABLE DEPARTMENT DROP(DESIGNATION);

Table altered.

SQL> SELECT \* FROM DEPARTMENT;

DEPNO DEPTNAME LOCATION

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10 SCIENCE KERALA

9 MATHS PONKUNNAM

11 BCA KERALA