NAME: Akash singh ROLL NO.: 41 DATABASE MANAGEMENT SYSTEM

ASSIGNMENT 1

ANS:-

TABLES

```
mysql> use db1;
Database changed
mysql> show tables;
+-----+
| Tables_in_db1 |
+-----+
| branch |
course |
dept |
enrolls |
student |
+-----+
5 rows in set (0.00 sec)
```

Bcode	Bname	dno
ab1	agriculture	6
ab2	agriculture	5
cs1	computer science	1
cs2	computer science	1
bsc1	chemistry	5
bsc2	chemistry	5
bsit1	it and innovation	1
bsit2	it and innovation	1
bms1	business mngt	1
bms2	business mngt	6
bms3	business mngt	6

Table : 2)

```
mysql> select * from dept;

+----+

| DNO | DNAME |

+----+

| 1 | MATHS |

| 2 | PHYSICS |

| 3 | CSE |

| 4 | LANG |

| 5 | CHEMISTRY |

| 6 | MANGEMENT |

| 11 | ENGG |

+----+
```

3)

ROLLNO	NAME	DOB	GENDER	DOA	BCODE
1200	RAM	2/3/2017	 м	5/15/2020	110
1201	SHYAM	5/4/2019	F	9/16/2020	112
1202	ALI	9/16/2017	M	5/4/2020	114
1203	KOHLI	5/15/2020	F	5/2/2020	109
1204	GHANSHYAM	6/14/2019	M	7/19/2020	106
1205	NEGI	8/12/2033	F	7/13/2020	101

mysql> se	elect * from course;		
CCODE	CNAME	CREDITS	DNO
11	LINEAR ALGEBRA	2	1
12	TRIGONOMETRY	3	1
13	DISCRETE MATH	2	1
14	STATS	2	1
21	REAL ANALYTICS	3	1
22	FIELD THEORY	4	1
23	DIFF EQN	4	1
24	CALCULUS	3	1
51	ENGG MATH	2	1
52	ENGG GRAPHICS	3	1
61	ART OF PROG	2	1
62	MECH OF SOLIDS] 3	1
63	ELEC ENGG BASIC] 3	1
64	HIGH VOLTAGE ENGG	2	1
65	ENGG ELECTRIC] 3	2
	CLASSIC MECH	4	2
	THEORY OF RELATIVITY] 3	2
82	MATTER AND KINETIC THEORY	4	2
83	COMPLEX ANALYSIS	4	2
84	SEMICONDUCTOR DEVICES	4	2
85	WAVE AND OPTICS	3	3
86	NUCLEAR PHYSICS	4	3
91	ELECTROPHYSICS	5	3
92	MOLECULAR PHYSICS	6	3
	ATMOSPHERIC PHYSICS	2	3
1 1	RADIATION PHYSICS	3	3
2	MATH FOR CS	! 1!	3
111	PROGRAMMING	5	4
112	WEB PROGRAMMING	7	5
113	0\$	3	2
121	COMPUTER GRAPHICS	2	1
122	COMPUTER NETWORKS] 2	2
123	RESEARCH METHODS	2	3
103	ENGLISH-1	1 1 1	3
110	ENGLISH-2	4	2
114	C LANGUAGE	9	2
115	JAVA RDBMS	5	1
116		2	1
117	JAVA JAVA CORE	2	2
118 119	COMPUTER ORGANIZATION	2 2	3 2
119	SANSKRIT	2	2 5
124	HINDI	1 2 1	6
124	FRENCH	8	2
+		Z 	-
44 rows i	in set (0.00 sec)		

5)

```
mysql> select * from enrolls;
 ROLLNO |
          CCODE
                  SESS
                           GRADE
    1200
            1011
                   Apr-14 | S
   1201
            1012
                   Apr-14
                            S
   1202
            1013
                   Apr-14 | S
   1203
            1014
                   Apr-08 | S
   1204
            1015
                   Apr-12 | A
                   Apr-08 | S
   1205
            1016
   1206
            1017
                   May-13 | B
                   May-13 | S
   1207
            1018
   1208
            1019
                   Nov-12 | A
   1209
            1020
                   Dec-12 | C
   1210
            1021
                   Jan-13
                          | D
   1211
            1022
                   Feb-13 | U
   1212
            1023
                   Mar-13 |
                            C
   1213
            1024
                   Apr-13 | E
   1214
            1025
                   May-13 | K
   1215
            1026
                   Jun-13 | L
   1216
            1027
                   Jul-13
                          l z
   1217
            1028
                   Aug-13 | A
   1218
            1029
                   Sep-13
                          | F
   1219
            1030
                   Oct-13
                          l W
    1220
            1031
                   Nov-13 | A
    1221
            1032
                   Dec-13 | S
22 rows in set (0.00 sec)
```

```
Ans a)
```

Question (A)

Develop a SQL query to list details of Departments that offer more than 3 branches.

Question (B)

Develop a SQL query to list the details of Departments that offer more than 6 courses.

Question (D)

Develop a SQL query to list students who got 'S' in more than 2 courses during single enrollment.

```
mysql> select name from student
   -> where rollno in(
   -> select rollno from enrolls
   -> where grade='s'
   -> group by rollno
   -> having count(ccode)>2);
Empty set (0.00 sec)
```