

Assignment-3

Stream : IT

Subject : Database Management System Lab

Subject Code: IT-691

1. Delete the name of a student whose roll no, year and department code is given.\

delete from Student where RollNo = '123044' and year = '3' and DeptCode = 'IT';

Output:

```
SQL> delete from Student where RollNo = '123044' and year = '3' and DeptCode = 'IT';
1 row deleted.
SQL> select * from Student;
          ROLLNO NAME
REGNO
                           ADDRESS
                                             PHONENO YEAROFADM DEPT
                                                                           YEAR BIRTHDAT
          123001 Ashish
123015 Kamal
                                     24761892
24424987
012301
                                                                              3 01-06-81
                           Jadavpur
                                                           2003 CSE
         123015 Kamal
012315
                                                           2003 CSE
                                                                            3 19-09-81
                           Kasba
          124024 Ipsita Kaikhali
                                          25739608
                                                          2004 CSE
                                                                            2 15-08-82
012424
012250
          122050 Anita
                          Hooghly
                                            36719695
                                                          2002 IT
                                                                             4 22-12-80
                                                                            3 15-07-81
                         Barasat
          123057 Samik
                                            25426742
                                                          2003 IT
012357
                                                                             2 25-10-82
          124019 Srija
012419
                           Garia
                                             24755655
                                                           2004 EE
          124027 Saibal
                                                                             2 22-03-83
012427
                           Garia
                                             24753306
                                                           2004 ECE
          122036 Santanu
                                                           2002 ECE
                                                                             4 11-12-80
012236
                           DumDum
          123049 Gita
                                             24428682
                                                           2003 MCA
                                                                             3 14-04-81
012349
                           Kasba
9 rows selected.
```

2. Display the number of students in each department.

Code:

select DeptCode, count(*) as number_of_students from Student group by DeptCode;

Output:

3. Change the address of a student whose roll no and name is given.

Code:

update Student set Address = 'Garia' where RollNo = '123049' and Name = 'Gita';

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Output:

```
SQL> update Student set Address = 'Garia' where RollNo = '123049' and Name = 'Gita';
1 row updated.
SQL> select * from Student;
REGNO
          ROLLNO NAME
                           ADDRESS
                                             PHONENO YEAROFADM DEPT
                                                                          YEAR BIRTHDAT
          123001 Ashish
012301
                           Jadavpur
                                           24761892
                                                           2003 CSE
                                                                             3 01-06-81
          123015 Kamal
012315
                                            24424987
                                                           2003 CSE
                                                                             3 19-09-81
                           Kasba
                           Kaikhali
012424
         124024 Ipsita
                                           25739608
                                                          2004 CSE
                                                                            2 15-08-82
012250
         122050 Anita
                         Hooghly
                                           36719695
                                                          2002 IT
                                                                             4 22-12-80
                                                                             3 15-07-81
         123057 Samik
                                           25426742
                                                          2003 IT
012357
                         Barasat
          124019 Srija
                           Garia
                                                           2004 EE
                                            24755655
                                                                             2 25-10-82
012419
012427
          124027 Saibal
                                                           2004 ECE
                                                                             2 22-03-83
                           Garia
                                            24753306
          122036 Santanu
                                                                             4 11-12-80
012236
                           DumDum
                                                           2002 ECE
012349
          123049 Gita
                           Garia
                                            24428682
                                                           2003 MCA
                                                                             3 14-04-81
9 rows selected.
```

4. Add the college phone number (25739607) to each of these students.

Code

alter table Student add collPhnNo varchar(10);

Output:

```
SQL> alter table Student add collPhnNo varchar(10);
Table altered.
```

Code:

update Student set collPhnNo = '25739607';

Output:

```
SQL> update Student set collPhnNo = '25739607';
9 rows updated.
SQL> select * from Student;
REGN0
          ROLLNO NAME
                            ADDRESS
                                               PHONENO YEAROFADM DEPT
                                                                             YEAR BIRTHDAT COLLPHNNO
012301
          123001 Ashish
                                              24761892
                                                             2003 CSE
                                                                                3 01-06-81 25739607
                            Jadavpur
012315
          123015 Kamal
                            Kasba
                                              24424987
                                                             2003 CSE
                                                                               3 19-09-81 25739607
                                                             2004 CSE
012424
          124024 Ipsita
                            Kaikhali
                                              25739608
                                                                               2 15-08-82 25739607
012250
          122050 Anita
                                              36719695
                                                             2002 IT
                            Hooghly
                                                                               4 22-12-80 25739607
                                                                               3 15-07-81 25739607
012357
          123057 Samik
                            Barasat
                                              25426742
                                                             2003 IT
012419
          124019 Srija
                                              24755655
                                                             2004 EE
                                                                                2 25-10-82 25739607
                            Garia
          124027 Saibal
012427
                                                             2004 ECE
                                                                                2 22-03-83 25739607
                            Garia
                                              24753306
012236
          122036 Santanu
                            DumDum
                                                             2002 ECE
                                                                                4 11-12-80 25739607
                                                             2003 MCA
012349
          123049 Gita
                            Garia
                                              24428682
                                                                                3 14-04-81 25739607
9 rows selected.
```

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5. Change the size of column name to 15 characters.

Code:

alter table Student modify Name varchar(15);

Output:

```
SQL> alter table Student modify Name varchar(15);
Table altered.
```

6. Add a column MarksObtained (number) to the student table.

Code

alter table Student add MarksObtained number(5);

Output:

Output:											
SQL> alter table Student add MarksObtained int;											
Table alte	red.										
SQL> select * from Student;											
REGNO	ROLLNO NAME	ADDRESS	PHONENO	YEAROFADM DEPT	YEAR	BIRTHDAT	COLLPHNNO	MARKSOBTAINED			
012301 012315 012424 012250 012357 012419 012427 012236	123001 Ashish 123015 Kamal 124024 Ipsita 122050 Anita 123057 Samik 124019 Srija 124027 Saibal 122036 Santanu	Jadavpur Kasba Kaikhali Hooghly Barasat Garia Garia DumDum	24761892 24424987 25739608 36719695 25426742 24755655 24753306	2003 CSE 2003 CSE 2004 CSE 2002 IT 2003 IT 2004 EE 2004 ECE	3 2 4 3 2 2	01-06-81 19-09-81 15-08-82 22-12-80 15-07-81 25-10-82 22-03-83 11-12-80	25739607 25739607 25739607 25739607 25739607 25739607				
012349	123049 Gita	Garia	24428682	2002 ECE 2003 MCA		14-04-81					

7. Insert values against marks column.

Code:

update Student set MarksObtained = 98 where RegNo = '012301'; Output:

```
SQL> update Student set MarksObtained = 98 where RegNo = '012301';
SQL> select * from Student;
REGNO
              ROLLNO NAME
                                              ADDRESS
                                                                        PHONENO YEAROFADM DEPT
                                                                                                                  YEAR BIRTHDAT COLLPHNNO MARKSOBTAINED
012301
               123001 Ashish
                                                                       24761892
                                                                                                                      3 01-06-81 25739607
                                                                                                                                                                    98
                                                                                                                     3 19-09-81 25739607
2 15-08-82 25739607
4 22-12-80 25739607
3 15-07-81 25739607
012315
               123015 Kamal
                                              Kasba
Kaikhali
                                                                       24424987
                                                                                            2003 CSE
              124024 Ipsita
122050 Anita
123057 Samik
                                                                       25739608
36719695
                                                                                            2004 CSE
2002 IT
2003 IT
012424
012250
                                              Hooghly
012357
                                                                       25426742
                                              Barasat
                                                                                                                     2 25-10-82 25739607
2 22-03-83 25739607
4 11-12-80 25739607
3 14-04-81 25739607
012419
               124019 Srija
                                              Garia
012427
               124027 Saibal
                                                                       24753306
                                                                                            2004 ECE
               122036 Santanu
                                                                                            2002 ECE
2003 MCA
012236
                                              DumDum
               123049 Gita
                                                                       24428682
012349
                                              Garia
  rows selected.
```

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8. Drop column MarksObtained from table student. Code:

Output:

Output.												
SQL> alter table Student drop column MarksObtained;												
Table altered.												
SQL> select * from Student;												
REGNO	ROLLNO	NAME	ADDRESS	PHONENO	YEAROFADM	DEPT	YEAR	BIRTHDAT	COLLPHNNO			
012301	123001	Ashish	Jadavpur	24761892	2003	CSE	3	01-06-81	25739607			
012315	123015	Kamal	Kasba	24424987	2003	CSE	3	19-09-81	25739607			
012424	124024	Ipsita	Kaikhali	25739608	2004	CSE	2	15-08-82	25739607			
012250	122050	Anita	Hooghly	36719695	2002	IT	4	22-12-80	25739607			
012357	123057	Samik	Barasat	25426742	2003	IT	3	15-07-81	25739607			
012419	124019	Srija	Garia	24755655	2004	EE	2	25-10-82	25739607			
012427	124027	Saibal	Garia	24753306	2004	ECE	2	22-03-83	25739607			
012236	122036	Santanu	DumDum		2002	ECE	4	11-12-80	25739607			
012349	123049	Gita	Garia	24428682	2003	MCA	3	14-04-81	25739607			
9 rows sel	ected.											

9. Add constraint primary key to the column RegNo of table student.

Code:

alter table Student add constraint pk_regNo primary key(RegNo);

Output:

```
SQL> alter table Student add constraint pk_regNo primary key(RegNo);
Table altered.
```

10. Add check constraints against BirthDate column where the birthdate should be within 1st june1980 and 31st may 1983.

Code:

alter table Student add constraint Birth_123 check (BirthDate between To_Date ('01-06-1980','DD/MM/YYYY') and To_Date('31-05-1983','DD/MM/YYYY'));

Output:

SQL> alter table Student add constraint Birth_123 check (BirthDate between To_Date ('01-06-1980','DD/MM/YYYY') and To_Date('31-05-1983','DD/MM/YYYY'));
Table altered.

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