

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.
Code:
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;
```

REGNO	ROLLNO	NAME	ADDRESS	PHONENO	YEAROFADM	DEPT	YEAR	BIRTHDAT
012301	123001	Ashish	Jadavpur	24761892	2003	CSE	3	01-06-81
012315	123015	Kamal	Kasba	24424987	2003	CSE	3	19-09-81
012424	124024	Ipsita	Kaikhali	25739608	2004	CSE	2	15-08-82
012250	122050	Anita	Hooghly	36719695	2002	IT	4	22-12-80
012357	123057	Samik	Barasat	25426742	2003	IT	3	15-07-81
012419	124019	Srija	Garia	24755655	2004	EE	2	25-10-82
012427	124027	Saibal	Garia	24753306	2004	ECE	2	22-03-83
012236	122036	Santanu	DumDum		2002	ECE	4	11-12-80
012349	123049	Gita	Kasba	24428682	2003	MCA	3	14-04-81

```
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:

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

DEPT	NUMBER_OF_STUDENTS
IT	2
EE	1
CSE	3
MCA	1
ECE	2

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';

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
012301	123001	Ashish	Jadavpur	24761892	2003	CSE	3	01-06-81
012315	123015	Kamal	Kasba	24424987	2003	CSE	3	19-09-81
012424	124024	Ipsita	Kaikhali	25739608	2004	CSE	2	15-08-82
012250	122050	Anita	Hooghly	36719695	2002	IT	4	22-12-80
012357	123057	Samik	Barasat	25426742	2003	IT	3	15-07-81
012419	124019	Srija	Garia	24755655	2004	EE	2	25-10-82
012427	124027	Saibal	Garia	24753306	2004	ECE	2	22-03-83
012236	122036	Santanu	DumDum		2002	ECE	4	11-12-80
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;
```

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 selected.
```

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:

```
SQL> alter table Student add MarksObtained int;
Table altered.
SQL> select * from Student;
```

REGNO	ROLLNO	NAME	ADDRESS	PHONENO	YEAROFADM	DEPT	YEAR	BIRTHDAT	COLLPHNNO	MARKSOBTAINED
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	

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';
1 row updated.
SQL> select * from Student;
```

REGNO	ROLLNO	NAME	ADDRESS	PHONENO	YEAROFADM	DEPT	YEAR	BIRTHDAT	COLLPHNNO	MARKSOBTAINED
012301	123001	Ashish	Jadavpur	24761892	2003	CSE	3	01-06-81	25739607	98
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 selected.

8. Drop column MarksObtained from table student.

Code:

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 selected.
```

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.
```