Lab Assignment–3

Name – Tanmay Garg

Batch – 3ENC1

Roll No. – 101915001

1. Create table Student (Rno, Name, DOB, Gender, Class, College, City, Marks)

```
create table Tanmay101915001(
Rno int,
Name varchar(30),
DOB date,
Gender varchar(10),
Class varchar(5),
College varchar(40),
City varchar(15),
Marks int,
);
```
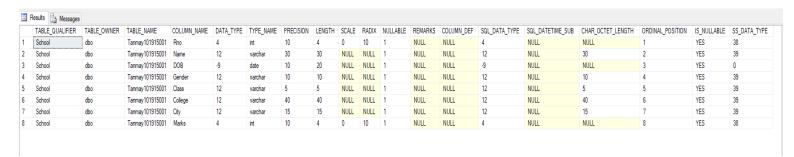
2. Insert 5 records in student table

```
insert into Tanmay101915001
values
(1,'Paul','2001-05-25','Male','ENC 3','TIET','Patiala',40),
(2,'Rahul','2001-09-15','Male','COE 5','TIET','Surat',25),
(3,'Seema','2001-07-02','Female','CHE 7','TIET','Delhi',90),
(5,'Vaibhav','2001-01-20','Male','ME 4','TIET','Amritsar',10),
(9,'Debra','2002-12-25','Female','CIV 2','TIET','Patiala',69);
```

3. Display the information of all the students

```
select *from Tanmay101915001
```

	Rno	Name	DOB	Gender	Class	College	City	Marks
1	1	Paul	2001-05-25	Male	ENC 3	TIET	Patiala	40
2	2	Rahul	2001-09-15	Male	COE 5	TIET	Surat	25
3	3	Seema	2001-07-02	Female	CHE 7	TIET	Delhi	90
4	5	Vaibhav	2001-01-20	Male	ME 4	TIET	Amritsar	10
5	9	Debra	2002-12-25	Female	CIV 2	TIET	Patiala	69

4. Display the detail structure of student table

```
exec sp_columns Tanmay101915001/*describes the detail structure of provided table*/
```

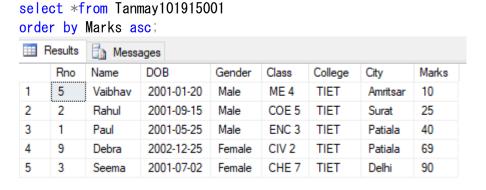|	TABLE_QUALIFIER	TABLE_OWNER	TABLE_NAME	COLUMN_NAME	DATA_TYPE	TYPE_NAME	PRECISION	LENGTH	SCALE	RADIX	NULLABLE	REMARKS	COLUMN_DEF	SQL_DATA_TYPE	SQL_DATETIME_SUB	CHAR_OCTET_LENGTH	ORDINAL_POSITION	IS_NULLABLE	SS_DATA_TYPE
1	School	dbo	Tanmay101915001	Rno	4	int	10	4	0	10	1	NULL	NULL	4	NULL	NULL	1	YES	38
2	School	dbo	Tanmay101915001	Name	12	varchar	30	30	NULL	NULL	1	NULL	NULL	12	NULL	30	2	YES	39
3	School	dbo	Tanmay101915001	DOB	-9	date	10	20	NULL	NULL	1	NULL	NULL	-9	NULL	NULL	3	YES	0
4	School	dbo	Tanmay101915001	Gender	12	varchar	10	10	NULL	NULL	1	NULL	NULL	12	NULL	10	4	YES	39
5	School	dbo	Tanmay101915001	Class	12	varchar	5	5	NULL	NULL	1	NULL	NULL	12	NULL	5	5	YES	39
6	School	dbo	Tanmay101915001	College	12	varchar	40	40	NULL	NULL	1	NULL	NULL	12	NULL	40	6	YES	39
7	School	dbo	Tanmay101915001	City	12	varchar	15	15	NULL	NULL	1	NULL	NULL	12	NULL	15	7	YES	39
8	School	dbo	Tanmay101915001	Marks	4	int	10	4	0	10	1	NULL	NULL	4	NULL	NULL	8	YES	38

5. Display Rno, Name and Class information of 'Patiala' students.

```
select Rno, Name, Class
from Tanmay101915001 where City='Patiala'
```

	Rno	Name	Class
1	1	Paul	ENC 3
2	9	Debra	CIV 2

6. Display information on ascending order of marks

```
select *from Tanmay101915001
order by Marks asc;
```

	Rno	Name	DOB	Gender	Class	College	City	Marks
1	5	Vaibhav	2001-01-20	Male	ME 4	TIET	Amritsar	10
2	2	Rahul	2001-09-15	Male	COE 5	TIET	Surat	25
3	1	Paul	2001-05-25	Male	ENC 3	TIET	Patiala	40
4	9	Debra	2002-12-25	Female	CIV 2	TIET	Patiala	69
5	3	Seema	2001-07-02	Female	CHE 7	TIET	Delhi	90

7. Change the marks of Rno 5 to 89.

```
update Tanmay101915001
set Marks=89
where Rno = 5;
```

	Rno	Name	DOB	Gender	Class	College	City	Marks
1	1	Paul	2001-05-25	Male	ENC 3	TIET	Patiala	40
2	2	Rahul	2001-09-15	Male	COE 5	TIET	Surat	25
3	3	Seema	2001-07-02	Female	CHE 7	TIET	Delhi	90
4	5	Vaibhav	2001-01-20	Male	ME 4	TIET	Amritsar	89
5	9	Debra	2002-12-25	Female	CIV 2	TIET	Patiala	69

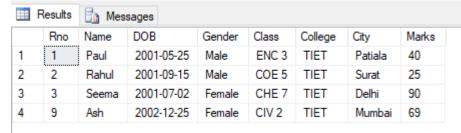## 8. Change the name and city of Rno 9.

```
update Tanmay101915001
set Name = 'Ash',City='Mumbai'
where Rno = 9;
```

	Rno	Name	DOB	Gender	Class	College	City	Marks
1	1	Paul	2001-05-25	Male	ENC 3	TIET	Patiala	40
2	2	Rahul	2001-09-15	Male	COE 5	TIET	Surat	25
3	3	Seema	2001-07-02	Female	CHE 7	TIET	Delhi	90
4	5	Vaibhav	2001-01-20	Male	ME 4	TIET	Amritsar	89
5	9	Ash	2002-12-25	Female	CIV 2	TIET	Mumbai	69

9. Delete the information of 'Amritsar' city records

```
delete from Tanmay101915001
where City = 'Amritsar'
```

	Rno	Name	DOB	Gender	Class	College	City	Marks
1	1	Paul	2001-05-25	Male	ENC 3	TIET	Patiala	40
2	2	Rahul	2001-09-15	Male	COE 5	TIET	Surat	25
3	3	Seema	2001-07-02	Female	CHE 7	TIET	Delhi	90
4	9	Ash	2002-12-25	Female	CIV 2	TIET	Mumbai	69

10. Delete the records of student where marks<30.

```
delete from Tanmay101915001
where Marks<30;
```

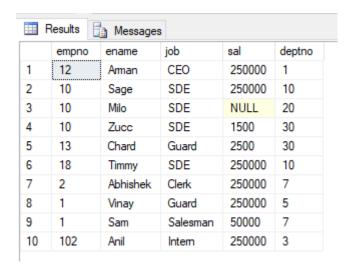|	Rno	Name	DOB	Gender	Class	College	City	Marks
1	1	Paul	2001-05-25	Male	ENC 3	TIET	Patiala	40
2	3	Seema	2001-07-02	Female	CHE 7	TIET	Delhi	90
3	9	Ash	2002-12-25	Female	CIV 2	TIET	Mumbai	69

1. Create table emp which has the following attributes (employee table) (empno, ename, job, sal, deptno)

```sql
create table emp(
empno int,
ename varchar(20),
job varchar(20),
sal int,
deptno int
);
```
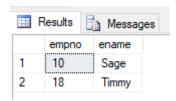
2. Insert appropriate records in above tables.

```sql
insert into emp values
(12,'Arman','CEO',250000,1),
(10,'Sage','SDE',250000,10),
(10,'Milo','SDE',NULL,20),
(10,'Zucc','SDE',1500,30),
(13,'Chard','Guard',2500,30),
(18,'Timmy','SDE',250000,10),
(2,'Abhishek','Clerk',250000,7),
(1,'Vinay','Guard',250000,5),
(1,'Sam','Salesman',50000,7),
(102,'Anil','Intern',250000,3);
```
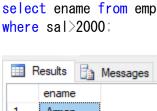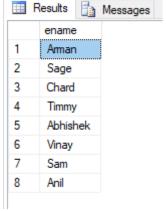
	empno	ename	job	sal	deptno
1	12	Arman	CEO	250000	1
2	10	Sage	SDE	250000	10
3	10	Milo	SDE	NULL	20
4	10	Zucc	SDE	1500	30
5	13	Chard	Guard	2500	30
6	18	Timmy	SDE	250000	10
7	2	Abhishek	Clerk	250000	7
8	1	Vinay	Guard	250000	5
9	1	Sam	Salesman	50000	7
10	102	Anil	Intern	250000	3

3. Get employee no and employee name who works in dept no 10

```sql
select empno,ename from emp
where deptno=10;
```

	empno	ename
1	10	Sage
2	18	Timmy

4. Display the employee names of those clerks whose salary > 2000

```sql
select ename from emp
where sal>2000;
```

	ename
1	Aman
2	Sage
3	Chard
4	Timmy
5	Abhishek
6	Vinay
7	Sam
8	Anil

5. Display name and sal of Salesperson & Clerks

```sql
select ename,sal from emp
where job in('Salesman','Clerk');
```

	ename	sal
1	Abhishek	250000
2	Sam	50000

6. Display all details of employees whose salary between 2000 and 3000

```sql
select ename from emp
where sal between 2000 and 3000;
```

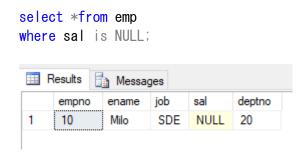|	ename
1	Chard

7. Display all details of employees whose dept no is 10, 20, or 30

```sql
select *from emp
where deptno in (10,20,30);
```

	empno	ename	job	sal	deptno
1	10	Sage	SDE	250000	10
2	10	Milo	SDE	NULL	20
3	10	Zucc	SDE	1500	30
4	13	Chard	Guard	2500	30
5	18	Timmy	SDE	250000	10

8. Display name of those employees whose commission is NULL

```
select *from emp
where sal is NULL;
```

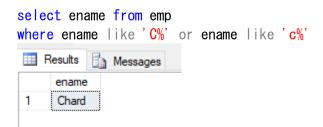|	empno	ename	job	sal	deptno
1	10	Milo	SDE	NULL	20

9. Display dept no & salary in ascending order of dept no and with in each dept no salary should be in descending order
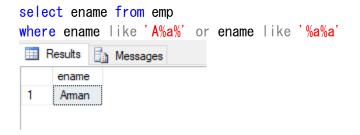
```
select deptno,sal from emp
order by deptno asc,sal desc;
```

	deptno	sal
1	1	250000
2	3	250000
3	5	250000
4	7	250000
5	7	50000
6	10	250000
7	10	250000
8	20	NULL
9	30	2500
10	30	1500

10. Display name of employees that starts with 'C'

```
select ename from emp
where ename like 'C%' or ename like 'c%'
```

	ename
1	Chard

11. Display name of employees that ends with with 'C'

```
select ename from emp
```

```
where ename like '%C' or ename like '%c'
```

	ename
1	Zucc

12. Display name of employees having two 'a' or 'A' chars in the name

```
select ename from emp
where ename like 'A%a%' or ename like '%a%a'
```

	ename
1	Arman

13. Display the name of the employees whose second char is 'b' or 'B'

```
select ename from emp
where ename like '_b%' or ename like '_B%'
```

	ename
1	Abhishek

14. Display the name of the employees whose first or last char is 'a' or 'A'

```
select ename from emp
where ename like 'A%a'
```

	ename