```
GROUP A
                  ASSIGNMENT NO 1
* SQL Queries:
st A)Design and develop a sql ddl statements which demonstrate the use of sql \, st
* object such as table, view, index, sequence, synonym, different constraint, etc. *
* B)Write at least 10 sql querrys on a suitable database application using sql*
* dml statements
*********************************
mysql> show databases;
+-----+
Database
| information_schema |
mysql
| performance_schema |
sys
5 rows in set (0.00 sec)
mysql> create database practical;
Query OK, 1 row affected (0.02 sec)
mysql> use practical;
Database changed
mysql> create table stud(rno int primary key auto increment, name varchar(20),
age int, marks int);
Query OK, 0 rows affected (0.07 sec)
mysql> desc stud;
+----+
+----
4 rows in set (0.00 sec)
mysql> alter table stud modify age int not null;
Query OK, 0 rows affected (0.11 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> desc stud;
+----+
+----+
```

```
+----+
4 rows in set (0.00 sec)
mysql> insert into stud(name,age,marks) values('Shital',18,85);
Query OK, 1 row affected (0.01 sec)
mysql> insert into stud(name,age,marks) values('Sakshi',18,82);
Query OK, 1 row affected (0.01 sec)
mysql> insert into stud(name,age,marks) values('Sanket',19,80);
Query OK, 1 row affected (0.01 sec)
mysql> insert into stud(name,age,marks) values('Gayatri',17,90);
Query OK, 1 row affected (0.02 sec)
mysql> insert into stud(name,age,marks) values('Om',20,90);
Query OK, 1 row affected (0.01 sec)
mysql> select * from stud;
+----+
+----+
 1 | Shital | 18 | 85 |
2 | Sakshi | 18 | 82 |
3 | Sanket | 19 | 80 |
   4 | Gayatri | 17 | 90 |
  5 | Om | 20 |
                      90 |
+----+
5 rows in set (0.00 sec)
mysql> update stud set age = 19 where rno = 4;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select * from stud;
```

++   rno	name	++   age	marks
1     2     3     4	Shital Sakshi Sanket Gayatri Om	18     18     19     19	85   82   80   90

5 rows in set (0.00 sec)

mysql> delete from stud where rno = 5; Query OK, 1 row affected (0.01 sec)

```
1 | Shital | 18 | 85 |
2 | Sakshi | 18 | 82 |
3 | Sanket | 19 | 80 |
4 | Gayatri | 19 | 90 |
+----+
4 rows in set (0.00 sec)
mysql> select * from stud where name LIKE 'S%';
+----+
| rno | name | age | marks |
+----+
 1 | Shital | 18 | 85 |
2 | Sakshi | 18 | 82 |
| 3 | Sanket | 19 | 80 |
+----+
3 rows in set (0.00 sec)
mysql> select * from stud where name LIKE '%i';
+----+
| rno | name | age | marks |
+----+
| 2 | Sakshi | 18 | 82 |
| 4 | Gayatri | 19 | 90 |
+----+
2 rows in set (0.00 sec)
mysql> select name as student Name from stud;
+----+
| student_Name |
+----+
| Shital |
Sakshi
Sanket
Gayatri
+----+
4 rows in set (0.00 sec)
mysql> select name as student Name from stud order by name;
+----+
| student_Name |
+----+
| Gayatri
Sakshi
Sanket
Shital
+----+
4 rows in set (0.00 sec)
mysql> select name as student_Name, Marks as topper from stud order by name
LIMIT 3;
+----+
| student_Name | topper |
+----+
| Gayatri | 90 |
```

```
| Sakshi
| Sanket
                  82 l
                 80 l
3 rows in set (0.00 sec)
mysql> select name as student Name, Marks as topper from stud order by marks LIM
+----+
| student_Name | topper |
+----+
| Sanket | 80 |
| Sauker
| Sakshi
                 82 l
Shital
                 85
+----+
3 rows in set (0.00 sec)
mysql> select rno, name from stud where rno >=2 and rno <=3;
+----+
rno name
+----+
 2 | Sakshi |
  3 | Sanket |
+----+
2 rows in set (0.00 sec)
mysql> alter table stud add column city varchar(20);
Query OK, 0 rows affected (0.05 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> insert into stud(name,age,marks,city) values('Pratik',21,55,'Nashik');
Query OK, 1 row affected (0.02 sec)
mysql> insert into stud(name,age,marks,city) values('Abhishek',19,95,'Nashik');
Query OK, 1 row affected (0.02 sec)
mysql> insert into stud(name,age,marks,city) values('Jacita',18,85,'Nashik');
Query OK, 1 row affected (0.01 sec)
mysql> insert into stud(name,age,marks,city) values('Sonam',22,87,'Sinnar');
Query OK, 1 row affected (0.01 sec)
mysql> update stud set city = 'Sinnar' where name = 'Shital';
Query OK, 1 row affected (0.02 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select * from stud;
+----+
| rno | name | age | marks | city |
+----+
  1 | Shital | 18 | 85 | Sinnar |
  2 | Sakshi | 18 | 82 | NULL
3 | Sanket | 19 | 80 | NULL
4 | Gayatri | 19 | 90 | NULL
```

```
| 6 | Dinesh | 20 | 75 | NULL | 7 | Rakesh | 21 | 45 | NULL | 8 | Pratik | 21 | 55 | Nashik | 9 | Abhishek | 19 | 95 | Nashik | 10 | Jacita | 18 | 85 | Nashik | 11 | Sonam | 22 | 87 | Sinnar |
+----+
10 rows in set (0.00 sec)
mysql> select MAX(marks) from stud;
+----+
| MAX(marks) |
+----+
95 |
+----+
1 row in set (0.01 sec)
mysql> select MIN(marks) from stud;
+----+
| MIN(marks) |
+----+
45
+----+
1 row in set (0.00 sec)
mysql> select COUNT(marks) from stud;
+----+
| COUNT(marks) |
+----+
10 |
+----+
1 row in set (0.00 sec)
mysql> select COUNT(marks) from stud where marks >=90;
+----+
| COUNT(marks) |
+----+
+----+
1 row in set (0.00 sec)
mysql> select SUM(marks) from stud;
+----+
| SUM(marks) |
+----+
779
+----+
1 row in set (0.00 sec)
mysql> select SUM(marks / 10) from stud;
+----+
| SUM(marks / 10) |
+----+
 77.9000 |
```

```
+----+
1 row in set (0.00 sec)
mysql> select AVG(marks) from stud;
+----+
| AVG(marks) |
+----+
77.9000 |
+----+
1 row in set (0.00 sec)
mysql> select age, count(name) from stud group by age;
+----+
| age | count(name) |
+----+
| 18 | 3 |
| 19 | 3 |
| 20 | 1 |
| 21 | 2 |
+----+
5 rows in set (0.01 sec)
mysql> select age, max(marks) from stud group by age;
+----+
| age | max(marks) |
+----+
| 18 | 85 |
| 19 | 95 |
| 20 | 75 |
| 21 | 55 |
22 | 87 |
+----+
5 rows in set (0.00 sec)
mysql> CREATE VIEW STUD VIEW AS SELECT * FROM STUD;
ERROR 1146 (42S02): Table 'practical.STUD' doesn't exist
mysql> show tables;
+----+
| Tables_in_practical |
+----+
| Fee
| Student
| mytable
| mytable |
| stud |
+----+
4 rows in set (0.00 sec)
mysql> create view stud_view as select * from stud;
Query OK, 0 rows affected (0.01 sec)
mysql> select * from stud view;
+----+
| rno | name | age | marks | city |
```

```
+----+
  1 | Shital | 18 | 85 | Sinnar |
| 1 | Shital | 18 | 85 | Sinnar | 2 | Sakshi | 18 | 82 | NULL | 3 | Sanket | 19 | 80 | NULL | 4 | Gayatri | 19 | 90 | NULL | 6 | Dinesh | 20 | 75 | NULL | 7 | Rakesh | 21 | 45 | NULL | 8 | Pratik | 21 | 55 | Nashik | 9 | Abhishek | 19 | 95 | Nashik | 10 | Jacita | 18 | 85 | Nashik | 11 | Sonam | 22 | 87 | Sinnar |
+----+
10 rows in set (0.00 sec)
mysql> create view stud_view2 as select * from stud where city='Nashik';
Query OK, 0 rows affected (0.02 sec)
mysql> select * from stud_view2;
+----+
| rno | name | age | marks | city |
+----+
| 8 | Pratik | 21 | 55 | Nashik | 9 | Abhishek | 19 | 95 | Nashik | 10 | Jacita | 18 | 85 | Nashik |
+----+
3 rows in set (0.00 sec)
mysql> update stud view2 set marks = 96 where name = 'Pratik';
Query OK, 1 row affected (0.02 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select * from stud_view2;
+----+
| rno | name | age | marks | city |
+----+
| 8 | Pratik | 21 | 96 | Nashik | 9 | Abhishek | 19 | 95 | Nashik | 10 | Jacita | 18 | 85 | Nashik |
+----+
3 rows in set (0.00 sec)
mysql> drop view stud_view2;
Query OK, 0 rows affected (0.07 sec)
mysql> select * from stud_view2;
ERROR 1146 (42S02): Table 'practical.stud_view2' doesn't exist
mysql> rename table stud_view to view_stud;
Query OK, 0 rows affected (0.02 sec)
mysql> select * from stud view;
```

ERROR 1146 (42S02): Table 'practical.stud view' doesn't exist

mysql> select \* from view\_stud;

+----+

rno	name	age	marks	city							
+   1	   Shital	   18	   85	   Sinnar	+ 						
2	Sakshi	18	82	NULL	İ						
j 3	Sanket	19	80	NULL	İ						
4	Gayatri	19	90	NULL	İ						
6	Dinesh	20	75	NULL	Ì						
7	Rakesh	21	45	NULL	ĺ						
8	Pratik	21	96	Nashik							
9	Abhishek	19	95	Nashik							
10	Jacita	18	85	Nashik							
11	Sonam	22	87	Sinnar							
	+			+	+						
	10 rows in set (0.01 sec)										
	<pre>mysql&gt; create index nameindex on stud(name);</pre>										
-	OK, 0 rows a		•	•							
Records	s: 0 Duplio	cates:	0 warn:	ings: 0							
mysql> show index from stud;											
	+					L		. 4			
	+						+				
			•	'		•	•		'		
			(ev name	l Sea i	n index	l Column	n name	Colla	tion		
Table   Non_unique   Key_name   Seq_in_index   Column_name   Collation   Cardinality   Sub_part   Packed   Null   Index_type   Comment   Index_comment											
	E   Express:		, ackea	11022	2.1.dex_e.	, , , , ,	JCC	1 21100			
+	•			+		+		+	+		
	+	+	+	+		+	+		+		
+		<del>l</del>									
stud		0   1	PRIMARY	1	1	rno		ΙA			
8	NULL		JLL	'  BTRE				'	YES		
NUI	_Ĺ	•	•	•	•		•		•		
stud		1   1	nameinde	<b>(</b>	1	name		A	1		
10	. NULL			s   BTRE	E	•		•	YES		
NUI	_Ĺ	-	•	•	•		•		•		
+	+	+-		+		+		+	+		
	+	+	+	+		+	+		+		

----+

2 rows in set (0.01 sec)