Practical no:1

1.mysql> CREATE DATABASE school;

2.mysql> USE school;

Database changed

3.mysql> CREATE TABLE students (id INT PRIMARY KEY, name VARCHAR(100), age INT, grade VARCHAR(10));

4.mysql> CREATE TABLE students_copy AS SELECT * FROM students;

5.mysql> SHOW TABLES;

++
Tables_in_school
++
students
students_copy
++
2 rows in set (0.01 sec)

6.mysql> CREATE TABLE students_specific_fields AS SELECT id, name FROM students;

7.mysql> DESCRIBE students copy;

+++
Field Type Null Key Default Extra
++ id int NO NULL name varchar(100) YES NULL age int YES NULL grade varchar(10) YES NULL ++
4 rows in set (0.00 sec)

8.mysql> DESCRIBE students specific fields;

+	+
Field Type	Null Key Default Extra
++	+
id int	NO NULL
name varcha	r(100) YES NULL
++	+
2 rows in set (0	.00 sec)

9.mysql> CREATE TABLE students_excluding_record AS SELECT * FROM students WHERE id != 1;

11.mysql> CREATE TABLE students_no_records AS SELECT * FROM students WHERE 1 = 0:

12.mysql> ALTER TABLE students ADD email VARCHAR(100);

13.mysql> DESCRIBE students;

4 rows in set (0.00 sec)

++
Field Type Null Key Default Extra
++
id int NO PRI NULL
name varchar(100) YES NULL
age int YES NULL
grade varchar(10) YES NULL
email varchar(100) YES NULL
++
5 rows in set (0.00 sec)

14.mysql> ALTER TABLE students MODIFY name VARCHAR(200);

15.mysql> DESCRIBE students;

16.mysql> ALTER TABLE students DROP COLUMN email;

17.mysql> ALTER TABLE students RENAME TO pupils;

18.mysql> SHOW TABLES;

```
+----+
Tables in school
+----+
pupils
students copy
students excluding record |
students no records
students specific fields
+----+
5 rows in set (0.00 \text{ sec})
```

19.mysql> ALTER TABLE PUPILS RENAME COLUMN name TO full name;

20.mysql> DESCRIBE pupils;

```
+----+
| Field | Type | Null | Key | Default | Extra |
+----+
       NO PRINULL |
id
   int
full name | varchar(200) | YES | | NULL |
age | int | YES | NULL |
grade | varchar(10) | YES | NULL |
+----+
```

4 rows in set (0.00 sec)

21.mysql> CREATE VIEW all pupils view AS SELECT * FROM pupils; SELECT * FROM all pupils view;

ERROR 1050 (42S01): Table 'all pupils view' already exists

```
+---+
| id | full name | age | grade |
+---+
| 1 | Avinash | 20 | TY |
| 2 | Rohit | 20 | TY |
| 3 | Prasad | 20 | TY |
4 | Atharava | 20 | TY |
+---+
4 rows in set (0.00 \text{ sec})
```

22.mysql> CREATE VIEW specific fields pupils view AS SELECT id, full name FROM pupils; SELECT * FROM specific fields pupils view;

```
+---+
| id | full name |
+---+
```

```
| 1 | Avinash | | 2 | Rohit | | 3 | Prasad | | 4 | Atharava | +----+ 4 rows in set (0.00 sec)
```

23.mysql> CREATE VIEW specific_pupil_record_view AS SELECT * FROM pupils WHERE id = 1; SELECT * FROM specific pupil record view;

```
+---+----+
| id | full_name | age | grade |
+---+----+
| 1 | Avinash | 20 | TY |
+---+----+
1 row in set (0.00 sec)
```

24.mysql> CREATE OR REPLACE VIEW pupils_age_above_10_view AS SELECT * FROM pupils WHERE age > 10; SELECT * FROM pupils age above 10 view;

```
+---+----+
| id | full_name | age | grade |
+---+----+
| 1 | Avinash | 20 | TY |
| 2 | Rohit | 20 | TY |
| 3 | Prasad | 20 | TY |
| 4 | Atharava | 20 | TY |
+---+----+
4 rows in set (0.00 sec)
```

25.mysql> SELECT * FROM pupils;

```
+---+----+
| id | full_name | age | grade |
+---+----+
| 1 | Avinash | 20 | TY |
| 2 | Rohit | 20 | TY |
| 3 | Prasad | 20 | TY |
| 4 | Atharava | 20 | TY |
+---+----+
4 rows in set (0.00 sec)
```

26.mysql> SELECT * FROM pupils WHERE id = 1;

```
+----+-------+-----+
| id | full_name | age | grade |
+----+--------+
| 1 | Avinash | 20 | TY |
```

```
+---+
1 row in set (0.00 \text{ sec})
27.mysql> UPDATE pupils SET grade = 'Final Year' WHERE id = 1;
28.mysql> SELECT * FROM pupils WHERE id = 1;
+---+
| id | full name | age | grade |
+---+
1 | Avinash | 20 | Final Year |
+---+
1 row in set (0.00 \text{ sec})
29.mysql> DELETE FROM pupils WHERE id = 2;
30.mysql> SELECT * FROM pupils;
+---+
| id | full name | age | grade |
+---+
1 | Avinash | 20 | Final Year |
| 3 | Prasad | 20 | TY |
| 4 | Atharava | 20 | TY
+---+
3 rows in set (0.00 \text{ sec})
31.mysql> CREATE INDEX idx full name ON pupils (full_name);
show indexes from pupils;
---+-----+
| Table | Non unique | Key name | Seq in index | Column name | Collation |
CardinAvinashty | Sub-part | Packed | Null | Index-type | Comment | Index-comment |
Visible | Expression |
---+-----+
| pupils |
        0 | PRIMARY | 1 | id
                              | A |
                                        3 | NULL | NULL |
                YES | NULL
BTREE
      3 | NULL | NULL |
| pupils | 1 | idx full name | 1 | full name | A |
YES | BTREE | |
YES | NULL
---+-----+
2 rows in set (0.01 sec)
```