

Question 1:

```
Command Prompt
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 28
Server version: 8.0.39 MySQL Community Server - GPL

Copyright (c) 2000, 2024, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+-----+
| Database |
+-----+
| adith    |
| information_schema |
| mysql    |
| performance_schema |
| sakila   |
| sys      |
| university |
| world    |
+-----+
8 rows in set (0.00 sec)

mysql> use adith;
Database changed
mysql> create Student_Table(StudentID int,  FirstName varchar(20), LastName varchar(20), DOB varchar(10));
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'S
tudent_Table(StudentID int,  FirstName varchar(20), LastName varchar(20), DOB v' at line 1
mysql> create table Student_Table(StudentID int,  FirstName varchar(20), LastName varchar(20), DOB varchar(10));
Query OK, 0 rows affected (0.05 sec)

mysql> describe Student_Table;
+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+
| StudentID  | int           | YES  |     | NULL    |       |
| FirstName  | varchar(20)   | YES  |     | NULL    |       |
| LastName   | varchar(20)   | YES  |     | NULL    |       |
| DOB        | varchar(10)   | YES  |     | NULL    |       |
+-----+
4 rows in set (0.01 sec)

mysql>
```

Since there are no given conditions, duplicate values can be given:

```
mysql> create table Student_Table(StudentID int,  FirstName varchar(20), LastName varchar(20), DOB varchar(20), Address varchar(20), Phone_no int);
Query OK, 0 rows affected (0.05 sec)

mysql> insert into Student_Table(StudentID,  FirstName, LastName, DOB, Address, Phone_no) values(101, "Kandala", "Adithya", "17/05/2006", "Dilsukhnagar", 12
34567890);
Query OK, 1 row affected (0.01 sec)

mysql> insert into Student_Table(StudentID,  FirstName, LastName, DOB, Address, Phone_no) values(101, "Kandala", "Adithya", "17/05/2006", "Dilsukhnagar", 12
34567890);
Query OK, 1 row affected (0.01 sec)

mysql> select*from Student_Table;
+-----+
| StudentID | FirstName | LastName | DOB      | Address      | Phone_no |
+-----+
| 101       | Kandala  | Adithya  | 17/05/2006 | Dilsukhnagar | 1234567890 |
| 101       | Kandala  | Adithya  | 17/05/2006 | Dilsukhnagar | 1234567890 |
+-----+
2 rows in set (0.00 sec)
```

Question 2:

```
mysql> alter table Student_Table add Address varchar(40);
Query OK, 0 rows affected (0.04 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> describe Student_Table;
```

Field	Type	Null	Key	Default	Extra
StudentID	int	YES		NULL	
FirstName	varchar(20)	YES		NULL	
LastName	varchar(20)	YES		NULL	
DOB	varchar(10)	YES		NULL	
Address	varchar(40)	YES		NULL	

```
5 rows in set (0.00 sec)
```

```
mysql> alter table Student_Table add Address varchar(40);
ERROR 1060 (42S21): Duplicate column name 'Address'
mysql> alter table Student_Table add Phone_no int;
Query OK, 0 rows affected (0.10 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> describe Student_Table;
```

Field	Type	Null	Key	Default	Extra
StudentID	int	YES		NULL	
FirstName	varchar(20)	YES		NULL	
LastName	varchar(20)	YES		NULL	
DOB	varchar(10)	YES		NULL	
Address	varchar(40)	YES		NULL	
Phone_no	int	YES		NULL	

```
6 rows in set (0.00 sec)
```

```
mysql> |
```

Question 3:

```
mysql> insert into Student_Table(StudentID, FirstName, LastName, DOB, Address, Phone_no) values(101, "Kandala", "Adithya", "17/05/2006", "Dilsukhnagar", 1234567890);
Query OK, 1 row affected (0.01 sec)

mysql> describe Student_Table;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| StudentID | int | YES | | NULL | |
| FirstName | varchar(20) | YES | | NULL | |
| LastName | varchar(20) | YES | | NULL | |
| DOB | varchar(10) | YES | | NULL | |
| Address | varchar(40) | YES | | NULL | |
| Phone_no | int | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)

mysql> select*from Student_Table;
+-----+-----+-----+-----+-----+-----+
| StudentID | FirstName | LastName | DOB | Address | Phone_no |
+-----+-----+-----+-----+-----+-----+
| 101 | Kandala | Adithya | 17/05/2006 | Dilsukhnagar | 1234567890 |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> |
```

Question 4:

```
mysql> drop table Student_Table;
Query OK, 0 rows affected (0.03 sec)

mysql> describe Student_Table;
ERROR 1146 (42S02): Table 'adith.student_table' doesn't exist
```

Question 5:

```
mysql> create table Student_Table(StudentID int, FirstName varchar(20), LastName varchar(20), DOB varchar(20), Address varchar(20), Phone_no int, primary key(StudentID));
Query OK, 0 rows affected (0.07 sec)

mysql> describe Student_Table;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| StudentID | int | NO | PRI | NULL | |
| FirstName | varchar(20) | YES | | NULL | |
| LastName | varchar(20) | YES | | NULL | |
| DOB | varchar(20) | YES | | NULL | |
| Address | varchar(20) | YES | | NULL | |
| Phone_no | int | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

Now that we have given constraints, duplicate values will not be taken.

```
mysql> insert into Student_Table(StudentID, FirstName, LastName, DOB, Address, Phone_no) values(101, "Kandala", "Adithya", "17/05/2006", "Dilsukhnagar", 1234567890);
Query OK, 1 row affected (0.07 sec)

mysql> insert into Student_Table(StudentID, FirstName, LastName, DOB, Address, Phone_no) values(101, "Kandala", "Adithya", "17/05/2006", "Dilsukhnagar", 1234567890);
ERROR 1062 (23000): Duplicate entry '101' for key 'student_table.PRIMARY'
mysql> select*from Student_Table;
+-----+-----+-----+-----+-----+-----+
| StudentID | FirstName | LastName | DOB | Address | Phone_no |
+-----+-----+-----+-----+-----+-----+
| 101 | Kandala | Adithya | 17/05/2006 | Dilsukhnagar | 1234567890 |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```