

DBMS

Slot B

Exercise 1:

DDL commands-create,alter,drop

Create table:

Commands: create table student_

(regd_no int,name varchar(20),gender char(1),dob int,
mobile_number int);

Output:

```
mysql> desc student_;
```

Field	Type	Null	Key	Default	Extra
regd_no	int	YES		NULL	
Name	varchar(20)	YES		NULL	
gender	char(1)	YES		NULL	
dob	int	YES		NULL	
mobile_number	int	YES		NULL	

5 rows in set (0.02 sec)

Alter table:

Command:alter table student_(table name)

Add age int;(constraint datatype)

Output:

```
mysql> alter table student_
-> add age int;
Query OK, 0 rows affected (0.05 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc student_;
```

Field	Type	Null	Key	Default	Extra
regd_no	int	YES		NULL	
Name	varchar(20)	YES		NULL	
gender	char(1)	YES		NULL	
dob	int	YES		NULL	
mobile_number	int	YES		NULL	
age	int	YES		NULL	

6 rows in set (0.01 sec)

Truncate:

```
mysql> truncate hostel_;
```

Query OK, 0 rows affected (0.04 sec)

Drop:

Exercise 2:

DDL commands with constraints:

Command:

```
mysql> alter table student_ add primary key(age);  
Query OK, 0 rows affected (0.07 sec)  
Records: 0 Duplicates: 0 Warnings: 0
```

Output:

```
mysql> desc student_;
```

Field	Type	Null	Key	Default	Extra
regd_no	int	YES		NULL	
Name	varchar(20)	YES		NULL	
gender	char(1)	YES		NULL	
dob	int	YES		NULL	
mobile_number	int	YES		NULL	
age	int	NO	PRI	NULL	

```
6 rows in set (0.01 sec)
```

Exercise 3;

DML Commands – INSERT, SELECT, UPDATE, DELETE

INSERT:

Commands:

```
mysql> insert into student_ values('1020192','nithish','M','2002','930289276','18');  
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into student_ values('192011342','jashwanth','M','2001','830189301','19');  
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into student_ values('192011332','ramya','F','2000','830189301','20');  
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into student_ values('192011011','anil','M','2003','830189301','17');  
Query OK, 1 row affected (0.01 sec)
```

Output:

```
mysql> select *from student_;
```

regd_no	Name	gender	dob	mobile_number	age
192011011	anil	M	2003	830189301	17
1020192	nithish	M	2002	930289276	18
192011342	jashwanth	M	2001	830189301	19
192011332	ramya	F	2000	830189301	20

```
4 rows in set (0.01 sec)
```

Select;

Command:

```
mysql> select*from student_;
```

Select*(table_name);

Output:

```
mysql> select*from student_;
```

regd_no	Name	gender	dob	mobile_number	age
192011011	anil	M	2003	830189301	17
1020192	nithish	M	2002	930289276	18
192011342	jashwanth	M	2001	830189301	19
192011332	ramya	F	2000	830189301	20

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

Delete:

Delete:

Command:

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```
mysql> delete from student_  
-> where dob=2003;  
Query OK, 1 row affected (0.01 sec)
```

Output:

```
mysql> select*from student;  
ERROR 1146 (42S02): Table 'student_.student' doesn't exist  
mysql> select*from student_  
+-----+-----+-----+-----+-----+-----+  
| regd_no | Name      | gender | dob  | mobile_number | age |  
+-----+-----+-----+-----+-----+-----+  
| 1020192 | nithish   | M      | 2002 | 930289276     | 18 |  
| 192011342 | jashwanth | M      | 2001 | 830189301     | 19 |  
| 192011332 | ramya     | F      | 2000 | 830189301     | 20 |  
+-----+-----+-----+-----+-----+-----+  
3 rows in set (0.01 sec)
```

Update;

Command:

```
mysql> update student_  
-> set name=192011469 where dob='2002';  
Query OK, 1 row affected (0.01 sec)  
Rows matched: 1  Changed: 1  Warnings: 0
```

Output:

```
mysql> select*from student_  
+-----+-----+-----+-----+-----+-----+  
| regd_no | Name      | gender | dob  | mobile_number | age |  
+-----+-----+-----+-----+-----+-----+  
| 1020192 | 192011469 | M      | 2002 | 930289276     | 18 |  
| 192011342 | jashwanth | M      | 2001 | 830189301     | 19 |  
| 192011332 | ramya     | F      | 2000 | 830189301     | 20 |  
+-----+-----+-----+-----+-----+-----+  
3 rows in set (0.01 sec)
```

Exercise 4;

Command:

Select*from student where gender='F';

```
mysql> select*from student_ where gender='F';
```


Exercise 4;

Command:

Select*from student where gender='F';

```
mysql> select*from student_ where gender='F';
```

Output:

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```
mysql> select*from student_ where gender='F';
```

regd_no	Name	gender	dob	mobile_number	age
192011332	ramya	F	2000	830189301	20

1 row in set (0.01 sec)

Command:

```
mysql> select*from student_ where name like'%sh';
```

Output:

regd_no	Name	gender	dob	mobile_number	age
1020192	Nithish	M	2002	930289276	18

1 row in set (0.00 sec)

Command:

```
mysql> select*from student_ where name like'ra%';
```

Output:

```
mysql> select*from student_ where name like'ra%';
```

regd_no	Name	gender	dob	mobile_number	age
192011332	ramya	F	2000	830189301	20

1 row in set (0.00 sec)

Command:

```
mysql> select*from student_ where name like'%sh';
```

Output:

```
+-----+-----+-----+-----+-----+-----+
| regd_no | Name    | gender | dob   | mobile_number | age |
+-----+-----+-----+-----+-----+-----+
| 1020192 | Nithish | M      | 2002  | 930289276    | 18  |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

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Command:

```
mysql> select*from student_ where name like'ra%';
```

Output:

```
mysql> select*from student_ where name like'ra%';
+-----+-----+-----+-----+-----+-----+
| regd_no | Name    | gender | dob   | mobile_number | age |
+-----+-----+-----+-----+-----+-----+
| 192011332 | ramya  | F      | 2000  | 830189301    | 20  |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

Exercise 5;

Between;

Command:

```
mysql> select*from student_ where age between 13 and 19;
```

Output:

```
mysql> select*from student_ where age between 13 and 19;
+-----+-----+-----+-----+-----+-----+
| regd_no | Name      | gender | dob   | mobile_number | age |
+-----+-----+-----+-----+-----+-----+
| 1020192 | Nithish   | M      | 2002  | 930289276    | 18  |
| 192011342 | jashwanth | M      | 2001  | 830189301    | 19  |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```