

## 1. DDL Operations:

```
mysql> create table Librarian(  
-> id varchar(20),  
-> password varchar(20) NOT NULL,  
-> primary key(id));  
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> create table book( bookid varchar(20) PRIMARY KEY, title varchar(20) NOT NULL, Quantity int(200), Author varchar(20));  
Query OK, 0 rows affected, 1 warning (0.01 sec)
```

```
mysql> create table students( name varchar(20) NOT NULL, rollno varchar(20), Branch varchar(20) NOT NULL, Semester varchar(20)  
NOT NULL, primary key(rollno));  
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> create table issue( issue_date date not null, bookid varchar(20), rollno varchar(20), foreign key(bookid) references boo  
k(bookid), foreign key(rollno) references students(rollno));  
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> create table breturn(breturn_date date not null, bookid varchar(20) not null, rollno varchar(20) not null, foreign key (  
bookid) references book(bookid), foreign key (rollno) references students(rollno));  
Query OK, 0 rows affected (0.01 sec)
```

## 2. DML Operations:

```
mysql> insert into librarian values('L001','abc@123');  
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into book values('0L13454','Advanced Engineering Mathematics','R K Jain');  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into students values('Agastya Sravan G','1602-19-736-002','Mechanical',6,'B.E');  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into issue values('2021-06-27','0L36743','1602-18-736-066');  
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into breturn values('2021-03-21','0L30057','1602-19-737-003');  
Query OK, 1 row affected (0.00 sec)
```

### 3. Output:

```
mysql> select * from librarian order by id ASC;
```

id	password
L001	abc@123
L002	me#123
L003	p@ssword000
L005	qwerty123!
L006	1q2w3e#
L007	def@ult#098
L008	ch@ndu123

7 rows in set (0.01 sec)

```
mysql> select * from book order by Title ASC;
```

bookid	Title	Author
0L16143	A Basic Course in Environmental Studies	Dr. Surinder Deswal
0L13454	Advanced Engineering Mathematics	R K Jain
0L30101	Computer Organization - 5th Edition	Carl Hamacher
0L33436	Database System Concepts - 6th Edition	Abraham Silberschatz
0L46882	Database System Concepts - 6th Edition	Abraham Silberschatz
0L30382	Discrete Mathematics and Its Applications with Combinatorics and Graph Theory - 7th Edition	Kenneth H Rosen
0L36453	Engineering Ethics includes Human Values	Govindarajan M
0L21045	Fundamentals of Computer Algorithms	Sartaj Sahani
0L35085	Fundamentals of Computer Algorithms	Sartaj Sahani
0L36743	Fundamentals of Data Structures in C - 2nd Edition	Sartaj Sahani
0L30057	Fundamentals of Digital Logic with VHDL Design - 3rd Edition	Stephen Brown
0L10383	Java : The Complete Reference - 7th Edition	Herbert Schildt
0L35247	Probability, Random Variables and Stochastic Processes - 4th Edition	Athanasios Papoulis
0L18212	Software Engineering - 6th Edition	Roger S. Pressman
0L31322	Software Engineering - 6th Edition	Roger S. Pressman

15 rows in set (0.00 sec)

```
mysql> select * from students order by rollno ASC;
```

name	rollno	Branch	Course
Joseph Birudula	1602-18-732-001	Civil	B.E
Shiva Sai Venkat K	1602-18-733-051	CSE	B.E
Adarsh Babu	1602-18-734-002	EEE	B.E
Yashwanth V	1602-18-734-060	EEE	B.E
Spandana Regatti	1602-18-735-046	ECE	B.E
Abhinav Reddy Gouravaram	1602-18-736-001	Mechanical	B.E
Arun Kumar Kalyankar	1602-18-736-066	Mechanical	B.E
Manoj Kumar Ankam	1602-18-737-024	IT	B.E
Samson Raj Chaliganti	1602-18-737-102	IT	B.E
Aashrith Reddy Budhula	1602-19-732-001	Civil	B.E
Pavan Varthya	1602-19-732-062	Civil	B.E
Aditya Narayan Khajuria	1602-19-733-001	CSE	B.E
Hemanth Aligeti	1602-19-733-070	CSE	B.E
Zubair Ahmad Malla	1602-19-733-182	CSE	B.E
Ashish Prakash Begari	1602-19-734-007	EEE	B.E
Yashwanth Dharipelli	1602-19-734-059	EEE	B.E
Abhishek Konkati	1602-19-735-001	ECE	B.E
Akash Reddy Anugu	1602-19-735-066	ECE	B.E
Sushanth Baliya	1602-19-735-166	ECE	B.E
Agastya Sravan G	1602-19-736-002	Mechanical	B.E
Hampi Padigala	1602-19-736-068	Mechanical	B.E
Arun Kumar Chepuri	1602-19-736-305	Mechanical	B.E
Anish Guguloth	1602-19-737-003	IT	B.E
Akhil Thakur	1602-19-737-064	IT	B.E
Raghupathi Kamsani	1602-19-737-148	IT	B.E
Abhinav Chandra A	1602-20-732-001	Civil	B.E
Abhinay Katta	1602-20-733-001	CSE	B.E
Vivek Amand	1602-20-733-061	CSE	B.E
Yagnan Nimma	1602-20-733-121	CSE	B.E
Aadesh Koyyadi	1602-20-734-001	EEE	B.E
Abhilash Anchula	1602-20-735-001	ECE	B.E
Abdul Muqtadir Ali Adeeb	1602-20-735-061	ECE	B.E
Abhinay Sriiram Reddy Narra	1602-20-735-121	ECE	B.E
Amruth Varsh S	1602-20-736-001	Mechanical	B.E
Aashreeth Puchakayala	1602-20-736-061	Mechanical	B.E
Abhiram Sreekar V Iruvanti	1602-20-737-001	IT	B.E
Aarthi Chowdary Munnangi	1602-20-737-061	IT	B.E
Abhiram Nayaka	1602-20-737-121	IT	B.E
Abhishek Yeldi	1602-20-744-001	ESVLSID	M.E
Abdul Sameer Ahmed	1602-20-745-001	ADM	M.E
Aashrith Sagar Ramachandrula	1602-20-748-001	CSE-AIML	B.E
Ausaf Ahmed	1602-20-766-001	PSPE	M.E

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

```
mysql> select * from issue order by issue_date ASC;
```

issue_date	bookid	rollno
2019-11-19	0L16143	1602-18-733-051
2020-08-27	0L36743	1602-18-736-066
2020-09-29	0L30057	1602-19-737-003
2020-12-03	0L16143	1602-19-733-001
2021-01-15	0L36743	1602-19-733-070
2021-06-27	0L36743	1602-19-736-068
2021-10-30	0L10383	1602-20-737-001
2022-01-29	0L30057	1602-20-737-121
2022-03-23	0L21045	1602-20-737-061
2022-04-16	0L13454	1602-20-737-001

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

```
mysql> select * from breturn order by breturn_date ASC;
```

breturn_date	bookid	rollno
2020-04-04	0L16143	1602-18-733-051
2021-02-12	0L36743	1602-18-736-066
2021-03-21	0L30057	1602-19-737-003
2021-06-21	0L36743	1602-19-733-070
2022-04-16	0L10383	1602-20-737-001

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