```
\\1 create and drop
mysql> CREATE DATABASE library;
Query OK, 1 row affected (0.00 sec)
mysql> drop database library;
Query OK, 0 rows affected (0.07 sec)
output
mysql> show databases;
| Database
+----+
| library
| movie
| mysql
| performance_schema
 record
 std
 student
| students
25 rows in set (0.00 sec)
mysql> use library;
Database changed
\\2 create table
quries
mysql> CREATE TABLE book (book id int(10), title varchar(20), language id int(10),
mrp bigint(10), published id int(10), published date date, volume int(10), status
varchar(10), PRIMARY KEY (book id));
Query OK, 0 rows affected (0.\overline{2}8 \text{ sec})
mysql> CREATE TABLE author (author_id int(10) primary key,name varchar(20),email
varchar(20),phono int(20),status varchar(20));
Query OK, 0 rows affected (0.29 sec)
mysql> CREATE TABLE book_author (book_id int(10),author_id int(10),CONSTRAINT
COMP NAME PRIMARY KEY (book id, author id));
Query OK, 0 rows affected (0.27 sec)
mysql> CREATE TABLE publisher (publisher_id int(10) primary key,name
varchar(20),address varchar(10));
Query OK, 0 rows affected (0.29 sec)
mysql> CREATE TABLE member(member_id int(10) primary key,name
varchar(20),branch_code int(10),roll_no int(10),email varchar(20),date_of_join
date,status varchar(20));
Query OK, 0 rows affected (0.27 sec)
mysql> CREATE TABLE book_issue (issue_id int(10) primary key,date_of_join
date,book_id int(20),member_id int(20),expected_date_of_return date);
Query OK, 0 rows affected (0.28 sec)
mysql> CREATE TABLE book_return (issue_id int(10) primary
key,actual_date_of_return date ,tae_days date,late_fee int(10));
Query OK, 0 rows affected (0.28 sec)
mysql> CREATE TABLE language (lang_id int(10) primary key,name varchar(20));
Query OK, 0 rows affected (0.27 sec)
```

mysql> CREATE TABLE late fee rule (from days int(10), to days int, amount int(10), CONSTRAINT COMP1 NAME PRIMARY KEY (from days, to days, amount)); Query OK, 0 rows affected (0.29 sec) mysql> ALTER TABLE book ADD CONSTRAINT c1 FOREIGN KEY(published id) REFERENCES publisher(publisher id); Query OK, 0 rows affected (0.80 sec) Records: 0 Duplicates: 0 Warnings: 0 mysql> ALTER TABLE book ADD CONSTRAINT c2 FOREIGN KEY(language_id) REFERENCES language(lang_id); Query OK, 0 rows affected (0.89 sec) Records: 0 Duplicates: 0 Warnings: 0 mysql> desc book +-----| Field | Type | Null | Key | Default | Extra | 8 rows in set (0.00 sec) mysql> desc author; +-----| Field | Type | Null | Key | Default | Extra | +----+ ÷-----5 rows in set (0.00 sec) mysql> desc book author; +----+ 2 rows in set (0.00 sec) mysql> desc publisher; +----+ | Field | Type | Null | Key | Default | Extra | +----+ +----- 3 rows in set (0.00 sec) mysql> desc member; +----+

```
7 rows in set (0.00 sec)
mysql> desc book_issue
-> ;
5 rows in set (0.00 sec)
mysql> desc book_issue
| Field | Type | Null | Key | Default | Extra |
5 rows in set (0.00 sec)
mysql> desc book_issue
| Field | Type | Null | Key | Default | Extra |
5 rows in set (0.00 sec)
mysql> desc late_fee_rule;
+----+
| Field | Type | Null | Key | Default | Extra |
+----+
+----+
3 rows in set (0.00 sec)
```

```
//3 droping table with foregin key
queris
mysql> DROP TABLE language;
```

ERROR 1217 (23000): Cannot delete or update a parent row: a foreign key constraint

//3 droping table without foregin key
mysql> DROP table
book;
Query OK, 0 rows affected (0.16 sec)

//4 alter command without data
mysql> ALTER TABLE book ADD pageno int(20);
Query OK, 0 rows affected (0.58 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc book;

	<u>. </u>				L	L
_	Field	Туре	Null	Key	Default	Extra
	book_id title language_id mrp published_id published_date volume status pageno	<pre>int(10) varchar(20) int(10) bigint(10) int(10) date int(10) varchar(10) int(20)</pre>	NO YES	PRI MUL MUL	NULL NULL NULL NULL NULL NULL NULL NULL	

9 rows in set (0.00 sec)

mysql> ALTER TABLE book drop column pageno;
Query OK, 0 rows affected (0.61 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc book;

+	-	.	L	L	L
Field	Type	Null	Key	Default	Extra
book_id title language_id mrp published_id published_date volume status	int(10) varchar(20) int(10) bigint(10) int(10) date int(10) varchar(10)	N0 YES YES YES YES YES YES	PRI MUL MUL 	NULL NULL NULL NULL NULL NULL NULL NULL	

8 rows in set (0.00 sec)

\\4 alter command with data

mysql> ALTER TABLE language ADD pageno int(20);
Query OK, 0 rows affected (0.72 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc language;

Field	+ Type +	Null	Key	Default	Extra
lang_id name	int(10) varchar(20)	NO	PRI		

```
3 rows in set (0.00 sec)
mysql> select * from language
-> ;
+-----+
| lang_id | name | pageno | +----+
1 | nibin | NULL |
2 | ashwin | NULL |
+----+
2 rows in set (0.00 sec)
mysql> insert into language values(3,'bibin',22);
Query OK, 1 row affected (0.04 sec)
mysql> select * from language
+-----
| lang_id | name | pageno |
+-----+
| 1 | nibin | NULL | 2 | ashwin | NULL | 3 | bibin | 22 |
3 rows in set (0.00 sec)
mysql> ALTER TABLE language drop column pageno;
Query OK, 0 rows affected (0.66 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> select * from language
-> ;
+-----4 alter command without data-+-----
| lang_id | name |
+----+
| 1 | nibin |
      2 | ashwin |
| 3 | bibin |
3 rows in set (0.00 sec)
mysql>
```