/*1.   Create a database named library */

create database library;

use library ;

/*1.Ques   Create a table named book */

create table book(

id int primary key auto_increment ,

title varchar(255),

author varchar(100),

years year,

genre varchar(100)

);

/*2.Ques   Insert the following book records into the books table:*/

insert into book(title,author , years, genre) values

("The Great Gatsby", "F. Scott Fitzgerald", 1925 , "Fiction");

insert into book(title, author , years , genre) values

("Pride and Prejudice", "Jane Austen", 1913, "Romance");

insert into book(title,author , years, genre) values

("To Kill a Mockingbird", "Harper Lee", 1960, "Fiction");

insert into book(title,author , years, genre) values

("1984", "George Orwell", 1949 , "Dystopian");

insert into book(title,author , years, genre) values

("Moby Dick", "Herman Melville", 1903, "Adventure");

```
/*              select * from book ;                   */
```

id	title	author	years	genre
1	The Great Gatsby	F. Scott Fitzgerald	1925	Fiction
2	Pride and Prejudice	Jane Austen	1913	Romance
3	To Kill a Mockingbird	Harper Lee	1960	Fiction
4	1984	George Orwell	1949	Dystopian
5	Moby Dick	Herman Melville	1903	Adventure
NULL	NULL	NULL	NULL	NULL

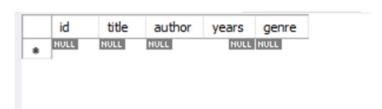/*3.Ques   Write a query to select all books where the title starts with the letter 'T' using the LIKE operator*/

select * from book where title like "T%" ;

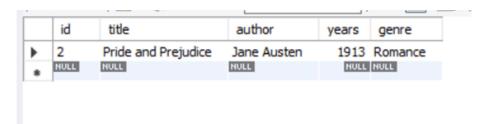| id	title	author	years	genre
1	The Great Gatsby	F. Scott Fitzgerald	1925	Fiction
3	To Kill a Mockingbird	Harper Lee	1960	Fiction
NULL	NULL	NULL	NULL	NULL

/*4.Ques   Write a query to find all books where the author's last name ends with 'son' using the LIKE operator.*/

select * from book where author like "%son" ;

id	title	author	years	genre
NULL	NULL	NULL	NULL	NULL

/*5.Ques   Write a query to find all books where the title contains the word 'and' using the LIKE operator*/

select * from book where title like "%and%" ;

id	title	author	years	genre
2	Pride and Prejudice	Jane Austen	1913	Romance
NULL	NULL	NULL	NULL	NULL

/*6.Ques   Write a query to retrieve all books where the title ends with the word 'bird' using the LIKE operator.*/

select * from book where title like "%bird";

id	title	author	years	genre
3	To Kill a Mockingbird	Harper Lee	1960	Fiction
NULL	NULL	NULL	NULL	NULL

/*7.Ques   Write a query to find all books where the title has exactly 3 characters using the REGEXP operator.*/

select *from book where title regexp"[A-Z]e | [A-Z]e | [A-Z]e ";

id	title	author	years	genre
1	The Great Gatsby	F. Scott Fitzgerald	1925	Fiction
2	Pride and Prejudice	Jane Austen	1913	Romance
NULL	NULL	NULL	NULL	NULL

/*8.Ques   Write a query to select all books where the title contains a number using the REGEXP operator.*/

select *from book where title regexp"[0-9]";

id	title	author	years	genre
4	1984	George Orwell	1949	Dystopian
NULL	NULL	NULL	NULL	NULL

/*9.Ques   Write a query to retrieve all books where the author's name starts with any letter between 'A' and 'J' using the REGEXP operator.*/

select *from book where author regexp"^[A-J]";

id	title	author	years	genre
1	The Great Gatsby	F. Scott Fitzgerald	1925	Fiction
2	Pride and Prejudice	Jane Austen	1913	Romance
3	To Kill a Mockingbird	Harper Lee	1960	Fiction
4	1984	George Orwell	1949	Dystopian
5	Moby Dick	Herman Melville	1903	Adventure
NULL	NULL	NULL	NULL	NULL

/*10.Ques   Write a query to select all books where the genre is either 'Fiction' or 'Adventure' using the REGEXP operator.*/

select*from book where genre regexp"Fiction|Adventure";

id	title	author	years	genre
1	The Great Gatsby	F. Scott Fitzgerald	1925	Fiction
3	To Kill a Mockingbird	Harper Lee	1960	Fiction
5	Moby Dick	Herman Melville	1903	Adventure
NULL	NULL	NULL	NULL	NULL

/*11.Ques   Write a query to find all books where the title contains at least one uppercase letter using the REGEXP operator.*/

select *from book where title regexp"[A-Z]";

id	title	author	years	genre
1	The Great Gatsby	F. Scott Fitzgerald	1925	Fiction
2	Pride and Prejudice	Jane Austen	1913	Romance
3	To Kill a Mockingbird	Harper Lee	1960	Fiction
5	Moby Dick	Herman Melville	1903	Adventure
NULL	NULL	NULL	NULL	NULL

/*12.Ques   Write a query to find all books where the year of publication is between 1800 and 1950 using the LIKE operator.*/

select *from book where years like"18%" or years like "19%" and years<1951 ;

id	title	author	years	genre
1	The Great Gatsby	F. Scott Fitzgerald	1925	Fiction
2	Pride and Prejudice	Jane Austen	1913	Romance
4	1984	George Orwell	1949	Dystopian
5	Moby Dick	Herman Melville	1903	Adventure
NULL	NULL	NULL	NULL	NULL

/*13.Ques   Write a query to retrieve all books where the author's name contains exactly two words using the REGEXP operator.*/

select *from book where author regexp "[A-Z]e | [A-Z]e";

id	title	author	years	genre
2	Pride and Prejudice	Jane Austen	1913	Romance
3	To Kill a Mockingbird	Harper Lee	1960	Fiction
4	1984	George Orwell	1949	Dystopian
5	Moby Dick	Herman Melville	1903	Adventure
NULL	NULL	NULL	NULL	NULL

/*14.Ques   Write a query to find all books where the title starts with the letter 'P' and contains exactly two words using the REGEXP operator.*/

select*from book where title regexp "^P" and title regexp "[A-Z]e | [A-Z]e";

id	title	author	years	genre
2	Pride and Prejudice	Jane Austen	1913	Romance
NULL	NULL	NULL	NULL	NULL

/*15.Ques   Write a query to find all books where the title contains any special characters (e.g., '!', '@', '#', etc.) using the REGEXP operator.*/

select*from book where title regexp"[!@#$%^&*]";

id	title	author	years	genre
NULL	NULL	NULL	NULL	NULL