1. **Create a database named library and a table named books with the following columns:**

   - **id (INT, Primary Key, Auto Increment)**

   - **title (VARCHAR(255))**

   - **author (VARCHAR(100))**

   - **year (YEAR)**

   - **genre (VARCHAR(100))**

```
create database library;

use library;

create table books(id int not null unique auto_increment,

title varchar(100),

 author varchar(100),

year year,

genre varchar(100)) ;
```

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

   - **"The Great Gatsby", "F. Scott Fitzgerald", 1925, "Fiction"**

   - **"Pride and Prejudice", "Jane Austen", 1813, "Romance"**

   - **"To Kill a Mockingbird", "Harper Lee", 1960, "Fiction"**

   - **"1984", "George Orwell", 1949, "Dystopian"**

   - **"Moby Dick", "Herman Melville", 1851, "Adventure**"

```
insert into books(title,author,year,genre)

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

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

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

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

("Moby Dick", "Herman Melville", 1951,"Adventure");

	id	title	author	year	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	1951	Adventure
*	NULL	NULL	NULL	NULL	NULL

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

SELECT * FROM books WHERE title LIKE 'T%';

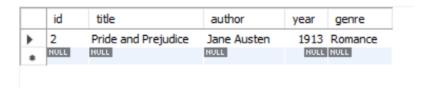|	id	title	author	year	genre
▶	1	The Great Gatsby	F. Scott Fitzgerald	1925	Fiction
	3	To Kill a Mockingbird	Harper Lee	1960	Fiction
*	NULL	NULL	NULL	NULL	NULL

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

SELECT * FROM books WHERE author LIKE '%son';

	id	title	author	year	genre
*	NULL	NULL	NULL	NULL	NULL

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

SELECT * FROM books WHERE title LIKE '% and %';

	id	title	author	year	genre
▶	2	Pride and Prejudice	Jane Austen	1913	Romance
*	NULL	NULL	NULL	NULL	NULL

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

SELECT * FROM books WHERE title LIKE '% bird';

id	title	author	year	genre
NULL	NULL	NULL	NULL	NULL

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

SELECT * FROM books WHERE title REGEXP '^.{3}$';

id	title	author	year	genre
NULL	NULL	NULL	NULL	NULL

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

SELECT * FROM books WHERE title REGEXP '[0-9]';

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

9.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 books WHERE author REGEXP '^[A-Ja-j]';

id	title	author	year	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	1951	Adventure
NULL	NULL	NULL	NULL	NULL

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

SELECT * FROM books WHERE genre REGEXP '^(Fiction|Adventure)$';

	id	title	author	year	genre
▶	1	The Great Gatsby	F. Scott Fitzgerald	1925	Fiction
	3	To Kill a Mockingbird	Harper Lee	1960	Fiction
	5	Moby Dick	Herman Melville	1951	Adventure
*	NULL	NULL	NULL	NULL	NULL

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

SELECT * FROM books WHERE title REGEXP '[A-Z]';

	id	title	author	year	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	1951	Adventure
*	NULL	NULL	NULL	NULL	NULL

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

SELECT * FROM books WHERE year LIKE '18%' OR year LIKE '1950%';

	id	title	author	year	genre
*	NULL	NULL	NULL	NULL	NULL

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

SELECT * FROM books WHERE author REGEXP '^[A-Za-z]+ [A-Za-z]+$';

	id	title	author	year	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	1951	Adventure
*	NULL	NULL	NULL	NULL	NULL

14.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 books WHERE title REGEXP '[^A-Za-z0-9]';

	id	title	author	year	genre
✱	NULL	NULL	NULL	NULL	NULL

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

SELECT * FROM books WHERE title REGEXP '[[:punct:]]';

	id	title	author	year	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	1951	Adventure
✱	NULL	NULL	NULL	NULL	NULL