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/*Q1. 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 PRIMARY KEY auto increment,
 TITLE VARCHAR(255),
 AUTHOR VARCHAR(100),
 YEAR INT,
 GENRE VARCHAR(100));
/*Q2. 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(ID, TITLE, AUTHOR, YEAR, GENRE)

VALUES(1, "THE GREAT GATSBY", "F. SCOTT FITZGERALD", 1925, "FICTION"),

- (2, "PRIDE AND PREJUDICE", "JANE AUSTEN", 1813, "ROMANCE"),
- (3, "TO KILL A MOCKINGBIRD", "HARPER LEE", 1960, "FICTION"),
- (4, "1984", "GEORGE ORWELL", 1949, "DYSTOPIAN"),
- (5, "MOBY DICK", "HERMAN MELVILLE", 1851, "ADVENTURE");

	ID	TITLE	AUTHOR	YEAR	GENRE
•	1	THE GREAT GATSBY	F. SCOTT FITZGERALD	1925	FICTION
	2	PRIDE AND PREJUDICE	JANE AUSTEN	1813	ROMANCE
	3	TO KILL A MOCKINGBIRD	HARPER LEE	1960	FICTION
	4	1984	GEORGE ORWELL	1949	DYSTOPIAN
	5	MOBY DICK	HERMAN MELVILLE	1851	ADVENTURE
	NULL	HULL	NULL	NULL	HULL

/*Q3. 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

/*Q4. 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";



/*Q5. 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	1813	ROMANCE
	HULL	NULL	NULL	NULL	NULL

/*Q6. 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";

TO KILL A MOCKINGBIRD HARPER LEE 1960 FICTION NULL NULL NULL NULL		ID	TITLE	AUTHOR	YEAR	GENRE
NULL NULL NULL NULL NULL	•	3	TO KILL A MOCKINGBIRD	HARPER LEE	1960	FICTION
The state of the s		NULL	NULL	NULL	NULL	NULL

/*Q7. 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}\$";



/*Q8. 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
	HULL	NULL	NULL	NULL	NULL

/*Q9. 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-J]";

	ID	TITLE	AUTHOR	YEAR	GENRE
•	1	THE GREAT GATSBY	F. SCOTT FITZGERALD	1925	FICTION
	2	PRIDE AND PREJUDICE	JANE AUSTEN	1813	ROMANCE
	3	TO KILL A MOCKINGBIRD	HARPER LEE	1960	FICTION
	4	1984	GEORGE ORWELL	1949	DYSTOPIAN
	5	MOBY DICK	HERMAN MELVILLE	1851	ADVENTURE
	HULL	NULL	HULL	NULL	NULL

/*Q10. 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	1851	ADVENTURE
	NULL	NULL	NULL	NULL	NULL

/*Q11. 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	1813	ROMANCE
	3	TO KILL A MOCKINGBIRD	HARPER LEE	1960	FICTION
	5	MOBY DICK	HERMAN MELVILLE	1851	ADVENTURE
	NULL	NULL	NULL	NULL	NULL

/*Q12. 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 BETWEEN 1800 AND 1950;

	ID	TITLE	AUTHOR	YEAR	GENRE
•	1	THE GREAT GATSBY	F. SCOTT FITZGERALD	1925	FICTION
	2	PRIDE AND PREJUDICE	JANE AUSTEN	1813	ROMANCE
	4	1984	GEORGE ORWELL	1949	DYSTOPIAN
	5	MOBY DICK	HERMAN MELVILLE	1851	ADVENTURE
	NULL	NULL	NULL	NULL	NULL

/*Q13. 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]+\$";

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ENTURE

/*Q14. 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 "^P[A-Za-z]+ [A-Za-z]+\$";

ID	TITLE	AUTHOR	YEAR	GENRE
NULL	NULL	NULL	NULL	NULL

/*Q15. 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 "!|@|#";

ID	TITLE	AUTHOR	YEAR	GENRE
NULL	NULL	NULL	NULL	NULL