
Test Paper- D

Table Schema

Books Table:

- **book_id:** stores the unique ID for each book.
- **title:** stores the title of the book.
- **author_id:** stores the ID of the author who wrote the book (references the authors table).
- **genre:** stores the genre of the book (e.g., Fiction, Non-fiction, etc.).
- **publish_year:** stores the year the book was published.
- **available_copies:** stores the number of copies of the book currently available in the library.

Authors Table:

- **author_id:** stores the unique ID for each author.
- **name:** stores the full name of the author.
- **birth_year:** stores the year the author was born.
- **nationality:** stores the nationality of the author.

Members Table:

- **member_id:** stores the unique ID for each member of the library.
- **name:** stores the full name of the member.
- **email:** stores the email address of the member
- **phone_number:** stores the contact number of the member.
- **membership_date:** stores the date when the member joined the library.

Loans Table:

- **loan_id:** stores the unique ID for each loan.
- **book_id:** stores the ID of the book that is being loaned (references the books table).
- **member_id:** stores the ID of the member borrowing the book (references the members table).
- **loan_date:** stores the date when the book was borrowed.
- **return_date:** stores the date by which the book must be returned.

Consider above table schema and write following queries:

1.	Display the top 3 percentages books order by title in descending.
2.	Display a distinct list of genres.
3.	Insert a new book into the books table. ('The Adventures of Sherlock Holmes', 2, 'Mystery', 1892, 5)
4.	Update the number of available copies is 10 for a book whose book_id is available.
5.	Delete a member from the members table whose member_id is 4.
6.	Add a new column language varchar(20) to the books table.
7.	Truncate all data from the loans table. (Using Truncate)
8.	Find books whose title starts with ‘H’ and end with ‘L’.
9.	Find authors whose name does not ends with vowel.
10.	Find Lenth of ‘Manish Pandey’

11.	Calculate your age in year.
12.	Display the total number of books by genre.
13.	Display the minimum, maximum, and average number of available copies for each genre whose book_id is available.
14.	Display the title of books where the author was born before 1970.(Using Sub query)
15.	Create a view View_Member whose membership date is not available from members table
16.	Find the title of books that have been borrowed the most (the top 1 book) and the corresponding author name (Using sub Query)
17.	Display the loan_id ,member name ,title ,loan date whose member name is 'Raj'.
18.	List the titles of books that have been borrowed by members who registered before 2020.(using Sub query)
19.	Display the total number of books borrowed by each member.
20.	Display the title of books that have not been borrowed by any members.