**[Project]**

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**[Answer the following Questions:]**

Create a folder on the desktop of your computer and name it by your ID. Save your all works in that folder.

1.Create a 3NF database which will have following Data with a Data File and a Log File by writing SQL script as follows: Database name: LibraryDB, Datafile name : Library\_Data\_1 , LogFile Name: Library\_Log\_1, Location: Default Database file location, Size(Datafile : 25 MB , LogFile: 2 MB),Maximum Size(Datafile : 100 MB , LogFile: 25 MB), File Growth (Datafile : 5% , LogFile: 1%). (10)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Book ID | Book Name | Writer Name | Issue No | Genre | Issue Date | Return Date | Issued To | Date Diff |
| 121 | Animal Firm | George Orwell | OR001 | Fiction | 1/1/2021 | 2/4/2021 | Alex Wilson |  |
| 233 | Jupiter Travels | Ted Simon | OR001 | Travel | 1/20/2021 | 2/2/2021 | Alex Wilson |  |
| 432 | Hamlet | William Shakespeare | OR004 | Drama | 1/10/2021 | 2/2/2021 | Alex Wilson |  |
| 123 | Pride & Prejudice | Jane Austen | OR009 | Fiction | 1/15/2021 | 1/31/2021 | Emily Brown |  |
| 424 | Arabian Sands | Wilfred Thesiger | OR009 | Travel | 1/10/2021 | 1/27/2021 | Emily Brown |  |
| 400 | Waiting for Godot | Samuel Beckett | OR009 | Drama | 1/1/2021 | 2/2/2015 | Emily Brown |  |

2. Insert Records into tables using Script.

3. Write a delete query for any one table of your project.

4. Write an update query for any one table of your project..

5. Write a script to delete a table.

6. Write a script to delete a column.

7. Write a join query to retrieve Writer wise Book information using Group By and Having Clause

8. Write a sub-query to show all the information of Customer –Alex Wilson.

9. Create a view to show all the information where the Genre is – Drama.

10. Create stored procedures to insert, update, delete data for any one of the table of your database and show use of output parameter.

11. Create a Clustered Index in any one of the table .

12. Create a Scalar Function to set date difference between Issue date and Return date.

13. Create trigger on Insert, update, delete of any one table of you database.

14. Create trigger on Insert, update, delete of any one table of you database.

15. Create a simple Case and a Search Case

16. Create a Cursor to insert data into any one table of you database.

17. Create a CTE

18. Create a new table and set merge for any one table of you project.

19. write a query to retrieve book issue and Return date from BookTransaction

20. Write a query to retrieve LibMember Whose CustomerFName starts with 'Al'.

21. Write a query to retrieve LibMember Whose Contact name has one of the following characters: A,E,R

22. write a query to find all LibMember whose first letter of Fname starts with A and the next letter is one of A through J

23. write a query to retrieve 2 through 3 records of LibMember

24. RollUp operator

25. Grouping sets operator

26. ANY

27. ALL

28. SOME

29. Over clause

30. Having clouse.

31. cube