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: PurchaseDB, Datafile name : PurchaseDB\_Data\_1 , LogFile Name: PurchaseDB\_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)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cust- Id** | **Customer** | **Car-Model** | **Cust- Phone** | **Price** | **Year** | **Purchase Date** | **Make** | **CarLoan** | **Delivery Date**  **2 Month after Purchase Date** |
| 101 | Jhon Doe | Fusion | 555-1234 | 5000000 | 2015 | 1/1/2023 | Ford | 50% |  |
| 102 | Jane Smith | Impala | 555-1235 | 5400000 | 2015 | 1/3/2023 | Charry | 60% |  |
| 103 | Frank Lee | Accord | 555-1236 | 6000000 | 2014 | 2/1/2023 | Honda | 60% |  |
| 101 | Jhon Doe | Accord | 555-1234 | 7000000 | 2015 | 3/1/2023 | Honda | 70% |  |

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 show Manufacturer wise car information using Group By and Having Clause

8. Write a sub-query to show all the information of Supplier Model- Accord.

9. Create a view to show all the information in a meaning full order where the customer is **Jhon Doe**.

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 get the Date difference from sale date to current date.

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

14. Use statement of transaction in your script.

15. Create a Table valued Function to get Customer wise detail information.

16. Show process of handling error in question number-4.

17. Create a CTE.

18. Create a simple Case and a Search Case

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

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

21.Write a query to retrieve Purchase\_T from 2023-01-03 to 2023-03-01

22. Write a query to retrieve Customer\_T Whose CustomerFName starts with 'j'

23. Write a query to retrieve Customer\_T Whose Contact name has one of the following characters: j,f,d,s,l

24. Write a query to find all Car\_t whose first letter of CarModelName starts with A and the next letter is one of A through J.

25. Write a query to find all Car\_t whose first letter of CarModelName starts with A and the next letter is not in O through R.

26. Write a query to retrieve 2 through 3 records of Purchase\_T

27. CUBE Operator

28. RollUp operator

29. Grouping sets operator

30. ANY

31.ALL

32.SOME

33. Over clause

34. Write a subquary to retrieve Customar\_t who have Purchase\_T

35.Correlated Subquery

36. EXISTS Operator

37. Write a group query to retrieve Purchase\_T those average of price is more than 5400000