**Car Purchase Management**

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%).

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Cust- Id** | **Customer** | **Car-Model** | **Cust- Phone** | **Price** | **Year** | **Purchase Date** | **Make** | **Car Loan** | **Delivery Date**  **2 Month after Purchase Date** | **Payment date** | **Payment**  **Total** | **Credit Total** |
| 101 | Jhon Doe | Fusion | 555-1234 | 5000000 | 2015 | 1/1/2023 | Ford | 50% |  | 3/2/2023 | 200000 | 100000 |
| 102 | Jane Smith | Impala | 555-1235 | 5400000 | 2015 | 1/3/2023 | Charry | 60% |  | 1/5/2023 | 100000 | 200000 |
| 103 | Frank Lee | Accord | 555-1236 | 6000000 | 2014 | 2/1/2023 | Honda | 60% |  |  |  | 100000 |
| 101 | Jhon Doe | Accord | 555-1234 | 7000000 | 2015 | 3/1/2023 | Honda | 70% |  |  |  | 200000 |

* Insert Records into tables using Script.
* A delete query for any one table of your project.
* An update query for any one table of your project.
* A script to delete a table.
* A script to delete a column.
* A join query to show Manufacturer wise car information using Group By and Having Clause.
* A sub-query to show all the information of Supplier Model- Accord.
* Create a view to show all the information in a meaning full order where the customer is Jhon Doe.
* Create stored procedures to insert, update, delete data for any one of the table of your database and show use of output parameter.
* Create a Clustered Index in any one of the table.
* Create a Scalar Function to get the Date difference from sale date to current date.
* Create trigger on Insert, update, delete of any one table of you database.
* Use statement of transaction in your script.
* Create a Table valued Function to get Customer wise detail information.
* Show process of handling error.
* Create a CTE.
* Create a simple Case and a Search Case
* Create a Cursor to insert data into any one table of you database.
* NTILE() function to distribute rows of a partition.
* Create a new table and set merge for any one table of you project.