**Final Project Report**

**Group-1**

**INFO 5707**

**DATA MODELING FOR INFORMATION PROFESSIONALS**

**Spring-2024**

**Integrated Sales and Production Management System for Car Retailers**

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**Under the Guidance of**

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**Objectives:**

* **Integration of Sales and Production Data:** To create a single platform that connects data from the sales and manufacturing divisions, allowing for seamless data flow and removing information gaps.
* **Customer Relationship Management:** To manage customer details effectively, track sales history, and improve the customer experience by providing personalized services.
* **Inventory Management**: To track product stock levels in real time, ensuring effective inventory management and timely restocking.
* **Sales Tracking and Order Fulfillment:** To make order tracking easier from initiation to fulfillment, ensuring accuracy and efficiency in sales operations.
* **Staff and Store Management:** To maximize resource allocation and staff deployment, keep thorough records of employee data, store information, and manage the administrative hierarchy.
* **Product Categorization and Management:** Effective product categorization allows for a complete picture of the available automobiles and related brands, which benefits focused marketing and sales efforts.
* **Production Oversight:** To track the production status of vehicles, linking production output directly to inventory levels and sales demand.
* **Product Catalog Expansion:** Allow for the addition of new automobile models and features to the system when they are available.
* **Sales and Marketing Alignment:** We can use sales data to guide marketing plans and promotions.
* **Efficient Resource Allocation:** Utilize data to improve personnel and inventory allocation among stores.

**Scope:**

* **Car Retailers Industry:** The database system is designed primarily for automotive retailers, including both local dealerships and bigger, multi-location sales organizations.
* **Multi-Store Functionality:** The database system is designed to handle many retail locations, providing corporate management while adapting to each store's specific demands and inventory.
* **User-Level Access Controls:** To establish different degrees of user access to sensitive data, so that employees may only access information relevant to their tasks.
* **Comprehensive Product Data:** To manage a thorough catalog of automobiles, including make, model, year, and pricing, as well as the inventory of these items across many locations.
* **Sales and Production Analytics:** The database will allow for enhanced reporting on sales patterns, production rates, and inventory management, offering vital decision-making information.
* **Dynamic Scaling:** The system is designed to scale with the company, enabling an expanding product line and a rising client base without sacrificing performance.
* **Business Intelligence:** Use the data to inform strategic company planning and operational changes.
* **Adaptability to Market Changes:** Allow the system to respond swiftly to changes in market demand and supply.
* **Support for Expansion:** Allow for the introduction of new product lines and services as the market changes.
* **Data Accuracy and Integrity:** Maintain high standards for data correctness and integrity to provide dependable business insight.

**Business Rules:**

* **Customer Identity Validation:** To ensure authenticity, each customer must present a valid government-issued ID for verification prior to any sales transaction being executed.
* **Real-Time Stock Updates:** To ensure correct stock counts, inventory levels must be dynamically modified in real time when vehicles are sold, returned, or received.
* **Order status Progression:** Sales orders must adhere to a set state progression (e.g., "Pending," "Approved," "In Transit," "Delivered") that cannot be skipped.
* **Sales Attribution:** All sales transactions must be attributed to a salesperson, and commissions should be computed accordingly.
* **Pricing Integrity:** To maintain consistency and profitability, vehicle pricing must correspond to management-defined minimum and maximum permissible margins.
* **Access Control Enforcement:** Employees can only access data relevant to their job function, with access levels determined by job title and department.
* **Sales Target Compliance:** Each salesperson's performance must be reviewed in relation to specified quarterly sales objectives, with performance review records kept.
* **Data Entry Validation:** All data entries, particularly customer and financial information, must be validated for format and accuracy before being stored.
* **Vehicle Data Completeness:** When adding new automobiles to the inventory, all relevant fields (such as VIN, make, model, and year) must be completed.
* **Customer Purchase Limits:** To avoid resale, customers are not permitted to purchase more than a specified number of automobiles within a given term without special clearance.
* **Conflict of Interest Restrictions:** When engaging in a transaction, staff personnel must declare any possible conflicts of interest, particularly if selling to relatives or friends.
* **Return and Exchange Policy:** Vehicle returns or exchanges must be completed within a specific time frame, and the cause must be logged in to the system.

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**User Requirements System will address:**

* **Customer and Sales Management:** The system will hold detailed customer data and follow all phases of sales orders, from creation to status updates to final shipment, ensuring a customer-centric strategy that maximizes sales productivity.
* **Inventory Tracking Across Multiple Locations:** Using the stocks and goods tables, the database will enable precise, real-time tracking of automobile inventories across several retail locations, allowing for effective stock management and quick reaction to inventory demands.
* **Staff and Store Operations:** By handling employee information and linking it with specific retail locations, the system will streamline staff administration and store operations, allowing for performance tracking and operational supervision.
* **Product Cataloging and Brand Association:** The system would provide sophisticated product management features, allowing users to categorize automobiles based on numerous qualities and correlate them with certain brands, improving product searchability and marketing efforts.
* **Dynamic Reporting and Analytics:** Using historical data and current trends from orders and sales, the system will allow dynamic reporting and analytics, offering insights into sales performance, manufacturing requirements, and customer purchasing habits.
* **Secure Transaction Processing:** To protect consumer information, transactions should be processed securely.
* **Multi-Store Reporting**: Create reports that integrate data from all stores.
* **Sales Incentive Tracking:** Monitor and manage sales incentives and commission arrangements.
* **Customer feedback Collection:** Collect and evaluate customer input to help improve products and services.
* **Training and support:** Provide system training and assistance to all users to guarantee optimal performance.

**ERD Diagram:**

![A diagram of a company

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4S3sRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDI0OjA0OjA4IDE5OjI4OjI3AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM4OAAAkpIAAgAAAAM4OAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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mP+FoeDv8Aoa9E/wDBhD/8VS/8LP8AB3/Q16J/4MYf/iqPa0/5l94e0h3OmormP+FoeDv+hr0T/wAGEP8A8VR/wtDwd/0Neif+DCH/AOKo9rT/AJl94vaQ/mR09Fcx/wALQ8Hf9DXon/gwh/8AiqX/AIWd4O/6GvRP/BhD/wDFUe1p/wAy+8PaQ7o6aiuY/wCFoeDv+hr0T/wYw/8AxVH/AAtDwd/0Nmif+DGH/wCKo9rT/mX3j9pDudPRXMf8LQ8Hf9DZon/gwh/+Ko/4Wh4O/wChr0T/AMGEX/xVHtaf8y+8XtId0dPRVXTdUstZso7ywu4L60kzsuLaRZI2wSDhgcHBBH1FWq1NAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooqjrGu6b4ftVudU1C1023Z/LWW8mWJC2CdoLEDOATj2NAF6iuZ/wCFneDv+hr0T/wYw/8AxVH/AAs7wd/0Neif+DGH/wCKrL2tP+ZfeXyS7HTUVzP/AAs7wd/0Neif+DGH/wCKo/4Wd4O/6GzQ/wDwYw//ABVHtaf8y+8OSfY6aiuZ/wCFneD/APoa9E/8GMP/AMVR/wALO8Hc/wDFV6H7/wDExh/+Ko9rT/mX3hyS7HTUVzP/AAs7wcOvivRP/BjD/wDFUf8ACzvB3X/hLND/APBjD/8AFU/aw/mQckux01Fcz/ws7wd/0Neif+DGH/4qj/hZ3g7/AKGzQ/8AwYw//FUva0/5l94ckux01Fcz/wALO8HdP+Er0T/wYw//ABVH/CzvB3/Q16J/4MYf/iqPa0/5l94ckux01Fcz/wALO8Hf9DXof/gxh/8AiqP+FneDv+hr0T/wYw//ABVP2sP5kHJLsdNRWFpvjrw1rF7HZ2HiHSr67kzst7e9jkkbAJOFDZOACfoK3aqMlJXi7ktNaMKKKKoQUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFeWftA/8gPw9zj/AImo/wDSa4r1OvK/2gv+QH4e/wCwr/7bXFeZmbawVVrszz8w/wB0qejPIfT86Sl9KSv529rU/mZ+F+0n/Mw471z3jXxtaeCbOylntbjULq+uks7SytDGJZpmBIUGV0QcKT8zDpjqQD0P44rz344eDIPHXhWLSrvwzceJbR7gNIun3sdre2hAOyaAyFUZg2MguvBPDfdPXhZOpWjCrJ8reup04eXPVjGo3b1LXib4uab4T+HY8YanpesW1udif2W1pi+8xm2iPyywBPXocYGckcnUvPiDpdnD4YmAmuIPEM6QWckKqQC8bSBnywwNqnpnn868m0v4c/EfVLXwLpupXsKxaKLm/l1DXFGoSNIS0dvDMsc8ZkdYnYs4YruAwW607T/BPjPw34Y8G6fPoj6y3hXxAzxf2fJBEbixEUixuiyzYXHmKuxn3AL3r2HRpaJVNW39rp0PS9lTdkp63fXp0PUvF3j5fC2saRpEWi6lrmo6mszQQaeYFIWIAuWaaWMDAYdCTUWu/ESPw3omm3t/ompQ3+o3S2dro5a1+0ySndhdwm8kcKW/1nt1OK4n4gaPq/i7xD4Q1p/CHiRbOwS8jubKx1a3s72PeqCNg8V2ilSQeBJ9R2q18QPBcXjX4a2Oj33gjWtRtPP+e0uNYi/tWz27tk8UzzukjA44aYcHnPK1nClBRpe0k9X73vf8EiMI2p87eu+v/BPSfDutDxFo1tqIsL3TDOuWs9RgMNxEckFXX1GOoJB6gkYJ0a434P6N4g0H4f6bY+Jbq4vdUh3jzLuVZbhYt58pZXXIaQJtDMCQSDgng12dePXqSp1ZRhK6T7nmVpShUkoyuk+4lKPbrRRWPtqn8zMvaT/mZ7r8Dh/xbXT+OPtF5/6VzV3Y61wnwP8A+Sa6f/183v8A6VzV3gr+kML/ALvTv2X5H73hv4EPRfkLRRRXWdIUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABXlP7RH/It6CD0/tZf/AEmuK9Wryn9oj/kW9B/7Cw/9JrivNzK6wdW3ZndgdcTT9UeKjsT+tHNHpRiv579rU/mf3n7J7On1ifPPjj4m6ppviDx1FbeOTZaxpNxAmi+GFSzY6gWijbytjxGZt7sy5RxjOe1ReLvilq+neIvF0E3inW9GvrS4t7TR9Ns9Jins5biSBGSGWdrZwC0jEcypweo617jonhS00HWNc1K3lmefWJ4551lIKKyxrGAoAyBhQec89+1YmsfCXQtdsfFlpem5lh8SSJLdAyKDC6IqI0RC5UjYrZyeRX0lPM6Ksne1t/zPHlgqj1VrmFpupeJvH3iXXdPTXZvC66HHbQOun29vM811JEJHZ2mjkzGMhQFCk4Y7jkAYWk+N/Efj7UfBNkuuXHh1r601H7dJpNvbt5k1tIsWU8+KUKpO44Hr1rtrr4VxSXX2yy8Sa5pOoTWqWl7dWctuXvlQYVpRJC6iQDPzxqjc4zwMMuvg/p8Z8Pvourap4ck0O3ltbaXTzBKzJJtL7/tEUm5iVB3HnJJ71Kx1LdS9NNv8x/Vam3Lr18zlPDvxC8QyeLNA0G81BbhrfWtQ0u9uVgRDepDB5kTsAMK2GXOzaCQeACFCN8QvEN9rF3oMGoC3ur7xTcaVb3/kozWdtHAJW2ArtZ+CAXDYzyCBiusf4P6Yuk6fbWup6pY6jZXr6jHrUMsZu3uHDCSR90bRsHDMCpTaBjaq4GJV+EukjQfsP2y+bUPtp1Rda8yNbwXh/wCW4ITywcHbt2bMcFcVLxlC7nd/j94LDVbWsGp+H/EWneF9VU+NtReSFWuLa+Szs1uhtQny5CYTEy5xjbEhAGMnrXn/AIU8ZeJoPBPww1m+8R3mqXHiS5ga+S4trVVVGtpHaOPy4UKgsq9STx16ivVdJ8HnTtO1K3vNc1bW5b8FZbrUZk3KpTbhEjRI0wP7qDJ5OazrH4VaRp2h+ENJjnvHtvC7o9nvdC0pSJowJPlAOVc5wF5/Kop46MVy1J82t9t1b/M0lhXL3oKzscIvjDxS3wzHxKGvuI2P2seH/s0H2P7L5u3y9wTzvN2c7hJjd/Bj5awfFnxw8R+GvFXxDsridYNHjtCmiXxijH2W9W1WbymyvzFw25d2eUYdxXpn/Cl9M5s/7W1j/hHftX2s+HfOj+x+Zu3gE+X53l7/AJvL8zZnjbt4o8WfBHw5400nxTp2p/apIPEM8dxcMrqGgkRFRHiO04ICg/MG5J7cVtTx+Hi7VHdP8F/mYSwtVq8dP1Oy0K5kvNE0+eZt0s1vHI7YAyxUEnA46ntV7NQWFomn2NvaxljHDGsSlzkkKABn34qevAqVZubcZO1+57EacVFKUVc6P4Z8/E3wv/18T/8ApJPX05XzF8M/+Sm+F/8Ar4n/APSSevp0Zr9j4Vk5ZanLuz8y4gSjjml2QtFFFfXnzgUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFeWftBf8AIB8P/wDYVH/pNcV6nXln7QX/ACAvD/8A2Ff/AG2uK8vNP9yq+jPPzD/dKvozx+lpPT6Utfzn1Pwcy/FPiCDwn4b1TWrpXkt9PtpLqRI/vMqKWIH5Vwmi/Ga4n8DSeJtS0S3S0ma3XTDo2pJex37zEKsasVjKuHOxgygDB5ODj0DXoLy60W9h042i3zxMsP2+IywbiOBIgZSynoQCDg/hXifh39nW606z8SNbw6Z4Te+ubO/stL0q5lvLKC7t3L+cfMSMgOcKY1XCqBg54Hr4OOFlSl7ayd0elho4d037XRnf6h458R+GfDevarr3ha2thpti99G2n6oLiCYqCTEzPFG6PwOkbLj+LPFLrXxQ/se90i3/ALNMp1DR7rVt/n48vyY0fy8bec78Z4xjODnitr2h+NvGnhHxLpOqQaDpX27TZLS2is7qe5zMykb5JWij2oMj5RGx6nd0FYUnwDstL1fS7zQNJ0LRjDod5pt41nbrbtcTSpGqMSkfzKCrnLHIz0JJrenHCa+2te/TY2pxwz0qNXv02NjTfiP4mk8Ey+LL/wANaTaaWultqcUdrrUs07fu/MVCptUAz0LbjjsDiuTuf2oBD4B8L6/F4YkkvtYvTaT6X9uAazVXCtIX8s7gCyfwjPmD1qbwz8HdS0fwReeH08HeDNHvbjRpNNfW9MumaeeQx7Qzj7HGdrNgn5jjHQkVht+zXri3WpyrqOntFNY2EVtCzvthuEaA3T/6vOHFumCO/UDrXXGOX80uZrfTU6oxwTcnJrfT0PRta+MMGj/FrS/Bh0uWWG6jUTassmI7aeQSNFCV2nJdYnPUY+UH7wr0X1HcHGP8mvC9W+AviXWrLxJqT+KpLXxFf6suq2tpAYTYK8DKLRXdrczABEUMFYDLNwcnPuFv5pt4/OCiXaN4QkqGxzjPUfXBrysbTw0VH2ErvZ/5nmYqNCPL7CV7b/5j6KKK8s8893+B/wDyTXT/APr5vf8A0rmrvK4P4H/8k10//r5vf/Suau8r+lsL/u9P0X5H9AYb+BD0X5BRRRXUdIUUUUAFFF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**Data Dictionary:**





**Entity Generation and Data Entry:**

1. **Table Creations:**

* CUSTOMERS Table:

A screenshot of a computer

Description automatically generated

* VEHICLE\_ORDERS Table:

A screenshot of a computer

Description automatically generated

* ORDER\_DETAILS Table:

A screenshot of a computer

Description automatically generated

* SALES\_STAFF Table:

A screenshot of a computer

Description automatically generated

* RETAIL\_STORES Table:

A screenshot of a computer

Description automatically generated

* INVENTORY Table:

A screenshot of a computer

Description automatically generated

* VEHICLES Table:

A screenshot of a computer

Description automatically generated

* VEHICLE\_TYPES Table:

A screenshot of a computer

Description automatically generated

* CAR\_MAKES Table:

A screenshot of a computer

Description automatically generated

1. **Insert Statements:**

* CUSTOMERS Table:

**A screenshot of a computer

Description automatically generated**

* VEHICLE\_ORDERS Table:

A screenshot of a computer

Description automatically generated

* ORDER\_DETAILS Table:

A screenshot of a computer

Description automatically generated

* SALES\_STAFF Table:

A screen shot of a computer

Description automatically generated

* RETAIL\_STORES Table:

A screen shot of a computer

Description automatically generated

* INVENTORY Table:

A screenshot of a computer

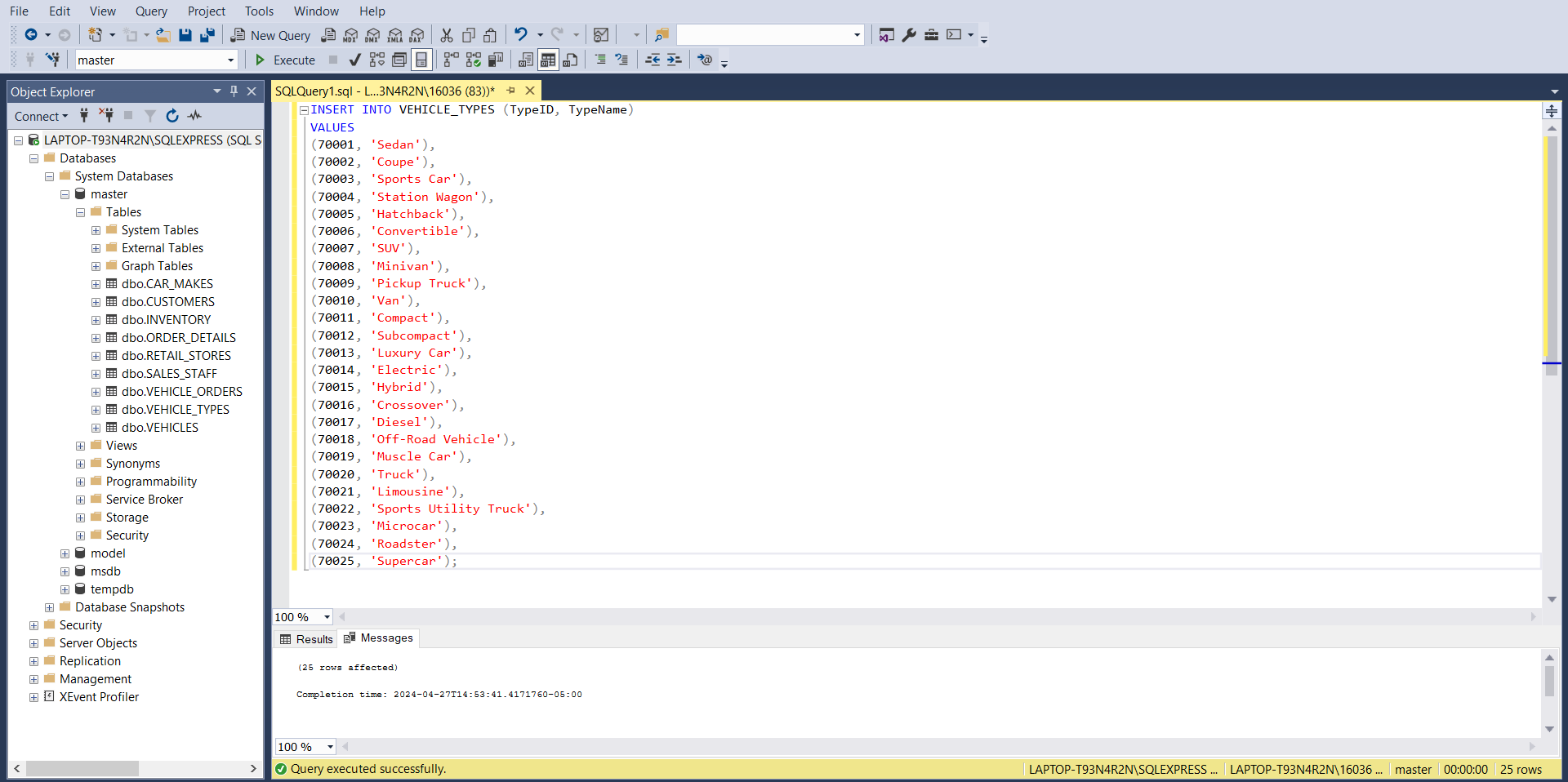
Description automatically generated

* VEHICLES Table:

A screenshot of a computer

Description automatically generated

* VEHICLE\_TYPES Table:



* CAR\_MAKES Table:

A screenshot of a computer

Description automatically generated

1. **Select Statements:**

* CAR\_MAKES Table:

A screenshot of a computer

Description automatically generated

* CUSTOMERS Table:

A screenshot of a computer

Description automatically generated

* INVENTORY Table:

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* ORDER\_DETAILS Table:

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* RETAIL\_STORES Table:

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* SALES\_STAFF Table:

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* VEHICLE\_ORDERS Table:

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* VEHICLE\_TYPES Table:

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* VEHICLES Table:

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1. **Data Analysis:**
2. Retrieve the total number of vehicles sold.

QUERY:

SELECT COUNT(\*) AS TotalSales FROM VEHICLE\_ORDERS;

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1. Display the average MSRP of vehicles by type.

QUERY:

SELECT TypeName, AVG(MSRP) AS AverageMSRP

FROM VEHICLES

JOIN VEHICLE\_TYPES ON VEHICLES.VehicleTypeID = VEHICLE\_TYPES.TypeID

GROUP BY TypeName;

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1. Identify the month with the highest number of vehicle orders.

QUERY:

SELECT MONTH(OrderDate) AS OrderMonth, COUNT(OrderID) AS TotalOrders

FROM VEHICLE\_ORDERS

GROUP BY MONTH(OrderDate)

ORDER BY TotalOrders DESC;

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1. Find out which vehicle type has the highest sales.

QUERY:

SELECT TypeName, COUNT(ORDER\_DETAILS.VehicleID) AS TotalSales

FROM ORDER\_DETAILS

JOIN VEHICLES ON ORDER\_DETAILS.VehicleID = VEHICLES.VehicleID

JOIN VEHICLE\_TYPES ON VEHICLES.VehicleTypeID = VEHICLE\_TYPES.TypeID

GROUP BY TypeName

ORDER BY TotalSales DESC;

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1. Find the most popular vehicle model based on orders.

QUERY:

SELECT Model, COUNT(ORDER\_DETAILS.VehicleID) AS TotalOrders

FROM ORDER\_DETAILS

JOIN VEHICLES ON ORDER\_DETAILS.VehicleID = VEHICLES.VehicleID

GROUP BY Model

ORDER BY TotalOrders DESC;

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1. Show all vehicles not currently available in inventory.

QUERY:

SELECT VehicleID FROM VEHICLES

WHERE VehicleID NOT IN (SELECT VehicleID FROM INVENTORY);

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1. Show the inventory levels for each vehicle model.

QUERY:

SELECT Model, SUM(QuantityAvailable) AS InventoryLevel

FROM INVENTORY

JOIN VEHICLES ON INVENTORY.VehicleID = VEHICLES.VehicleID

GROUP BY Model;

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