

# Case Study: SQL Table Creation

***SCM Shipment***

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**Overview:**

*A Supply Chain Management company wants to build an application to capture, store, process and report their daily business shipments which happens between their Warehouses. The system should capture the vehicles involved, shipment details like date, vehicle, weight carried, distance covered, master list of vehicles. It should help them to generate daily report which answers their business operation questions like*

* + *Vehicle Shipment details between Warehouses*
  + *Top 3 vehicles based on the Weightage carried, Distance covered, Trips completed*
  + *day of the week & day of the month stock movement analysis*
  + *Top warehouse based on the stock volume handled (From & To)*
  + *Warehouse wise, Vehicle Wise, Day wise, Vehicle category & make wise Break-up*
  + *Etc.*
* *Create vehicle and shipment tables with the following structure.*

|  |
| --- |
| **Vehicle** |
| VehicleID |
| Vehicle\_Category |
| Vehicle\_Make |
| Vehicle\_Model |
| Capacity |

|  |
| --- |
| **Shipment** |
| ShipmentID |
| ShipmentDate |
| VehicleID |
| From\_WarehouseID |
| To\_WarehouseID |
| Distance\_Covered |
| Weight\_Carried |

*Queries to be answered:*

1. *List the Vehicles of ‘Chevrolet’ and ‘Ford’ Make*
2. *List the shipments which covered more than 1500 Miles and carried more than 10K Pounds*
3. *Sort the Shipments by distance covered from highest to lowest for each Warehouse\_ID*
4. *List down top 3 Shipments based weight carried*
5. Display the Vehicle details along with the Shipment details by Joining those two tables
6. Display the Vehicles which hasn’t involved yet in any shipment
7. Display the Total Distance covered by Vehicle Make
8. Display the Vehicle category where Total Weight carried > 30K Pounds
9. Display the TOP 2 Vehicles based on the shipment weightage car*ried*
10. Classify the Vehicle with ‘Excellent’, ‘Average’ and ‘Poor’ rating based on Average Weight carried per Shipment
11. List down the Vehicles which have been multiple shipments
12. List down the Vehicles which have not yet been used in any shipment using Subquery
13. Rank the Vehicles within each Vehicle category based on the Weightage Carried
14. Top 2 Vehicles in each Vehicle category based on the Distance covered
15. Shortest and Longest travelled vehicle for each vehicle category based on the distance travelled.