

The appendix C contains the solution for the Trucker problem as follows:

1. Problem Statement

A trucking company called TRUCKER is responsible for picking up shipments for warehouses of a retail chain called MAZE BROTHERS and delivering the shipments to individual retail store locations of MAZE BROTHERS. The company wants to keep track of truck usage and deliveries and to help in scheduling trucks to provide timely deliveries. Currently there are six warehouse locations and 45 retail stores. The TRUCKER company currently has 150 trucks and a truck makes 3 to 4 trips each week. Each trip can visit many warehouses. For each visit, pick-up date and time are stored in the database. A truck may carry several shipments during a single trip. Each trip is identified by Trip# and includes data about date of trip, driver's name, Each shipment is delivered to only one store. Each shipment is identified by a Shipment# and includes data on shipment volume, weight, geographical control code used in scheduling deliveries. For each delivery, date and time of delivery are stored. Each truck has a unique truck number, a different capacity for both the volume it can hold and the weight it can carry. Note that the company also needs to know the warehouse at which a particular shipment was stored even after delivery. Each warehouse has a unique number, location, and description that states the type of warehouse. Each store has also a store number, location, owner name, and a phone number. Assume that all the relationships are binary.

2. ERD
3. Stable Translation
4. Mapped Translation
5. Mapped Translation with Total/Partial
6. Referential Integrity Diagram
7. Data Dictionary
8. SQL DDL