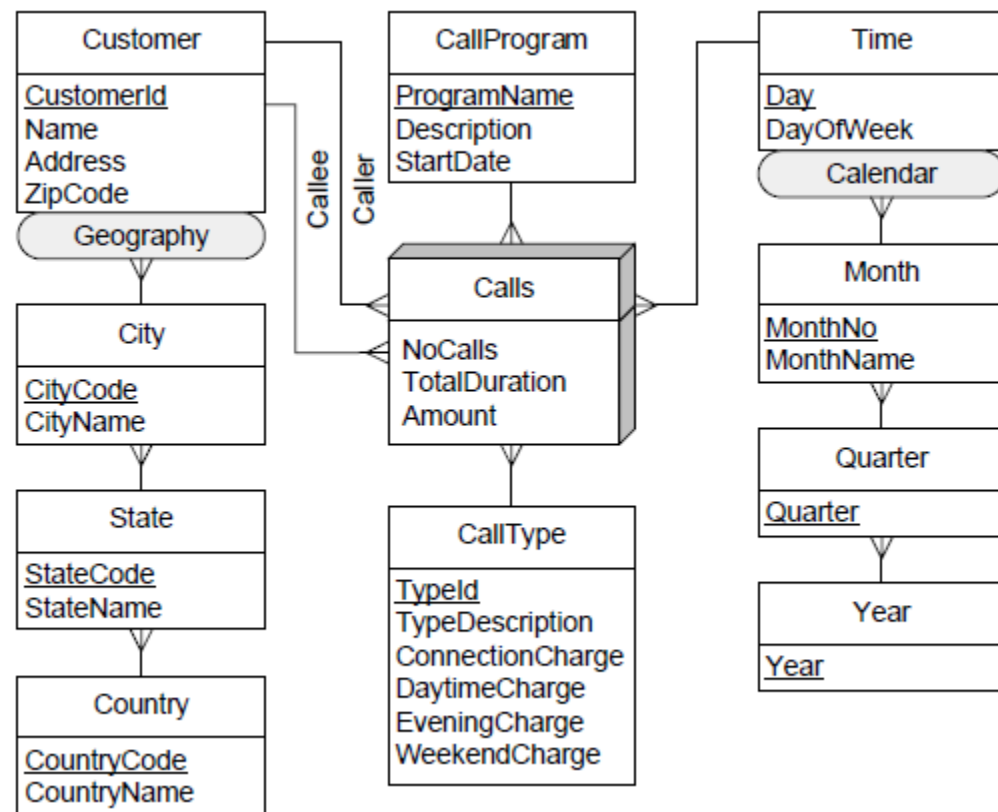


Exercises

1. A data warehouse of a telephone provider consists of five dimensions, namely, caller customer, callee customer, time, call type, and call program, and three measures, namely, number of calls, duration, and amount.

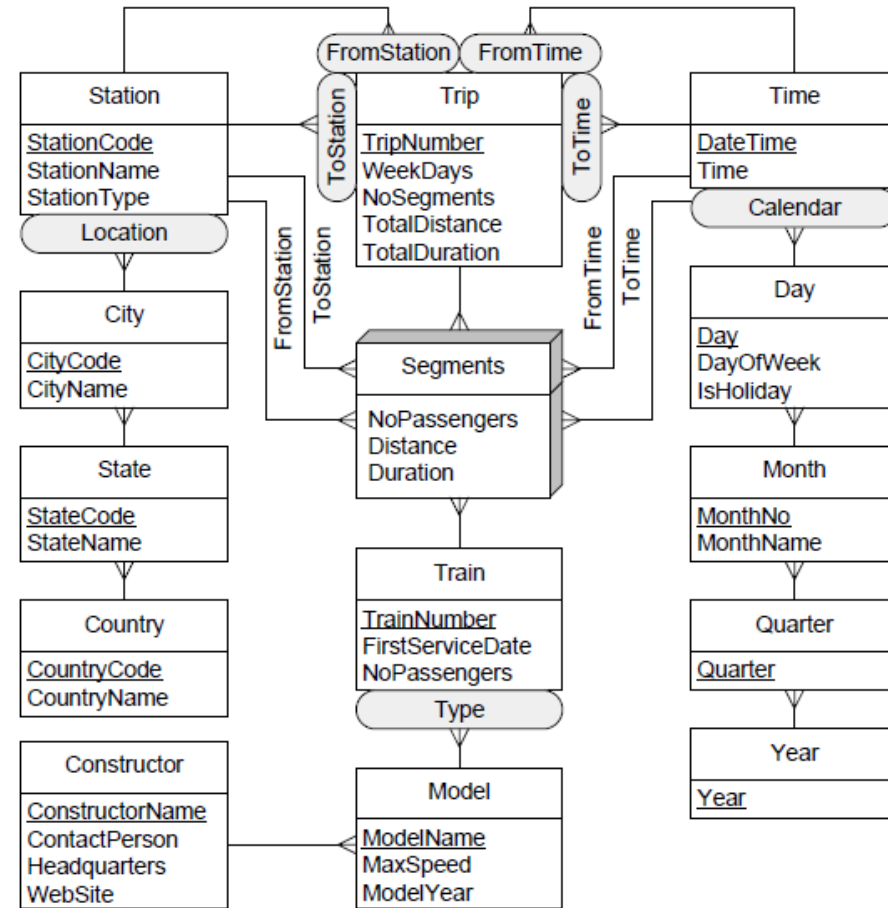
Design a MultiDim schema for the given problem.



Exercises

2. A data warehouse of a train company contains information about train segments. It consists of six dimensions, namely, departure station, arrival station, trip, train, arrival time, and departure time, and three measures, namely, number of passengers, duration, and number of kilometers.

Design a MultiDim schema for the given problem.



Exercises

3. Consider the data warehouse of a university that contains information about teaching and research activities. On the one hand, the information about teaching activities is related to dimensions department, professor, course, and time, the latter at a granularity of academic semester. Measures for teaching activities are number of hours and number of credits. On the other hand, the information about research activities is related to dimensions professor, funding agency, project, and time, the latter twice for the start date and the end date, both at a granularity of day. In this case, professors are related to the department to which they are affiliated. Measures for research activities are the number of person months and amount.

Design a MultiDim schema for the given problem.

