**DATABASE**

**Software Required** : mySQL

**Attributes** : Service\_Id ( Unique, Not Null ), Origin , Destination , A\_Time, D\_Time, Halts, Fare, Jorney\_Hours, Depo, Bus\_Type

**Problem** : We have origin of bus and destination of bus which are uniquely identified by service number. If any bus is searched by service number, origin location or destination then there is no issue, this scenario is easy to replicate. In this scenario there is nearly 5000 tuples because as per Himachal Bus services there are only 5000 buses. Here start the problem we want to provide services from halts. Now for each bus lets say there are m halts and if we provide service from one halt to another then this scenario will multi fold itself and result in large number of arrangements.

For example

N ( Service\_Id) = 5000

M (Average Halts) = 10

Total no of origin and destination will be = 10C2 \* 5000 = 2,25,000

Implementing this solution will result in formation of more than 2 lakh tuples.

That is why we need a optimal solution for this problem.

**Note**: Try to develop a solution with the help of mentioned attributes only.