

FUNCTIONAL DEPENDENCIES AND NORMAL FORMS

1.BUS

RegistrationNo \rightarrow SeatCapacity,

RegistrationNo \rightarrow RunningYear,

RegistrationNo \rightarrow Roadways,

RegistrationNo \rightarrow CityBus

Normal Form:BCNF

2.AGENCY

AgencyID \rightarrow AgencyName,

AgencyID \rightarrow Government,

AgencyID \rightarrow Private,

AgencyID \rightarrow Helpline

Normal Form:BCNF

3.DRIVER

DID \rightarrow FirstName,

DID \rightarrow LastName

Normal Form:BCNF

4.PHONE_NO

DID \rightarrow MobNo

Normal Form:BCNF

5.PASSENGER

PassengerId \rightarrow {FirstName, LastName},

PassengerId \rightarrow {StudentType, TouristType, PremiumType},

PassengerId \rightarrow {Male,Female}

PassengeId \rightarrow Feedback

Normal Form:BCNF

6.TICKETS

TicketNo \rightarrow {Date of Journey, DepTime, Fare, Stpoint, Destination}

Normal Form:BCNF

7.ROUTE

$\text{RouteId} \rightarrow \{\text{St.point, Destination, Distance(km)}\}$

Normal Form:BCNF

8.GARAGE

$\{\text{GarageId, MaintainenceId}\} \rightarrow \{\text{DateArrBus, DateDepBus}\}$

Normal Form:BCNF

9.SCHEDULE

$\text{ScheduleId} \rightarrow \{\text{Arrival Time, DepTime, LocationPoint}\}$

Normal Form:BCNF

10. FARE

$\{\text{RouteId, AgencyId}\} \rightarrow \{\text{Rupee, SeatType}\}$

Normal Form:BCNF

11.RUNS_ON

Normal Form:BCNF

12.MAINTAINENCE

Normal Form:BCNF