





## Functional Dependencies

### 1) User:

Email id → Full name Email id → Password Email id → Age Email id → Gender Email id → Mobile Email id → City Email id → State

### 2) bus:

bus id → bus Name bus id → bus Type bus id → SeatsClass1 bus id → SeatsClass2 bus id → SeatsClass3 bus id → FareClass1 bus id → FareClass2 bus id → FareClass3 bus id → AvailableDays bus id → SourceID bus id → DestinationID

3) Employee:

EID → EName EID → Category EID → busID EID → StationID EID → Phoneno EID → EmailID EID → Address

4) bus Status:

{busID,AvailableDays} → Bookedseats1 {busID,AvailableDays} → Bookedseats2  
{busID,AvailableDays} → Bookedseats3 {busID,AvailableDays} → Waitingseats1  
{busID,AvailableDays} → Waitingseats2 {busID,AvailableDays} → Waitingseats3  
{busID,AvailableDays} → Availableseats1 {busID,AvailableDays} → Availableseats2  
{busID,AvailableDays} → Availableseats3

5) Passenger:

PNR → PName PNR → Gender PNR → Age PNR → SeatNo PNR → Class PNR → Fare PNR → SourceID  
PNR → DestinationID

6) Route:

{busID,Stopnumber} → StationID {busID,Stopnumber} → SorceDestination {busID,Stopnumber}  
→ ArrivalTime {busID,Stopnumber} → DepartureTime

7) Station:

StationID → StationName

8) Reservation:

{EmailID,busID,Availableseats} → PNR {EmailID,busID,Availableseats} → Reservedstatus  
{EmailID,busID,Availableseats} → ReservationDate

**All are in BCNF form.**