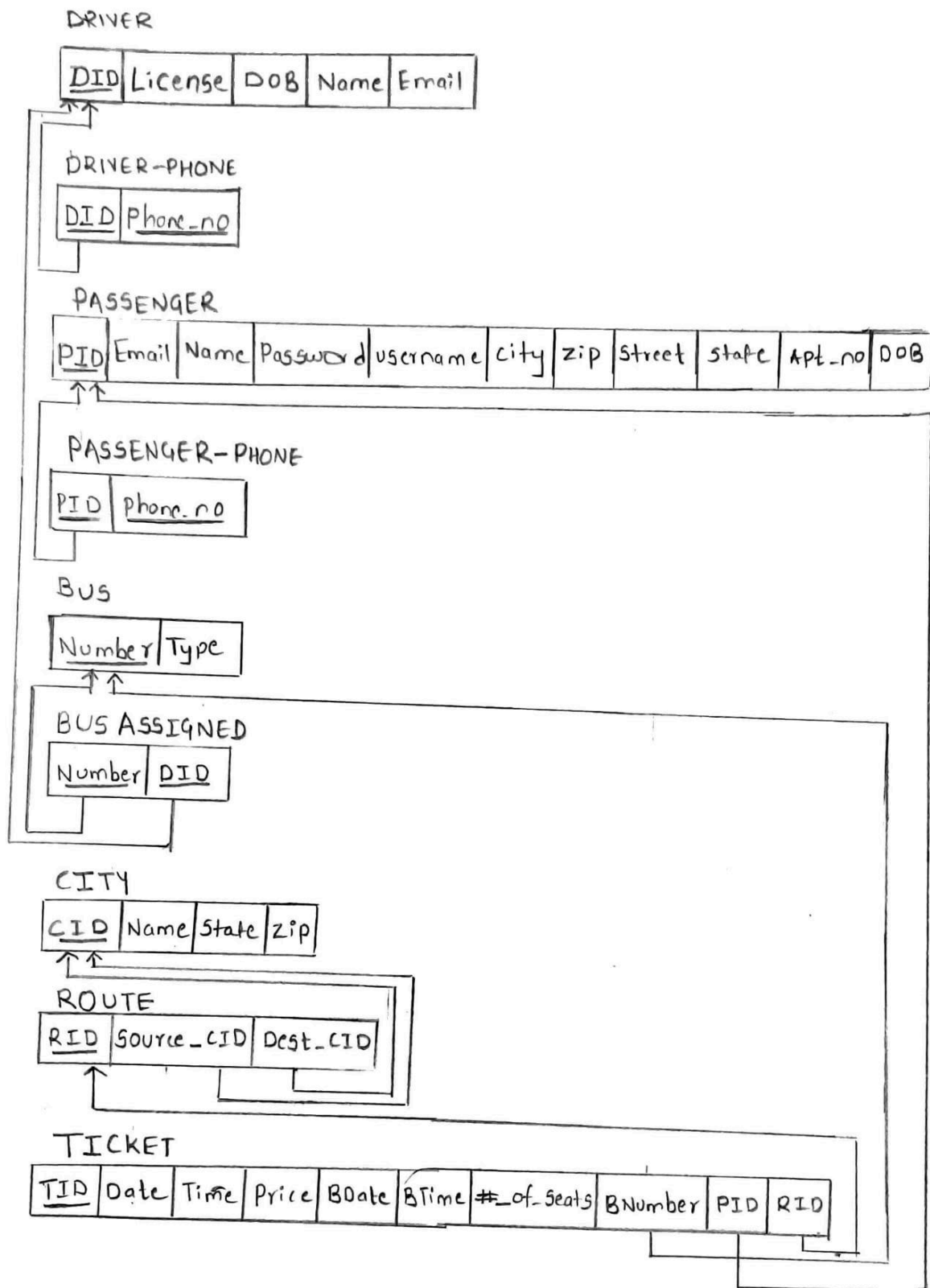


Team 6 - Phase 3



Primary Keys and Candidate Keys

Relation	Primary Key	Candidate Key
Driver	DID	{ DID }, { License }, { Name, Email }
Bus	Number	{ Number }
Ticket	TID	{ TID }
Passenger	PID	{ TID }, { Username }, { Name, Email }
Route	RID	{ RID }, { Source_CID, Dest_CID }
City	CID	{ CID }, { Name, State }, { Name, Zip }
Assigned_to	{ DID, Bus_Number }	{ DID, Bus_Number }

Functional Dependencies

1. Driver
 - a. { DID } \rightarrow { License, DOB, Name, Email, Phone_no }
 - b. { License } \rightarrow { DID, DOB, Name, Email, Phone_no }
 - c. { Name, Email } \rightarrow { License, DOB, DID, Phone_no }
2. Bus
 - a. { Number } \rightarrow { Type }
3. Ticket
 - a. { TID } \rightarrow { Time, Date, Price, BDate, BTime, #_of_Seats, PID, RID, Bus_number }
4. Passenger
 - a. { PID } \rightarrow { Username, Password, DOB, Name, Email, Phone_no, City, Street, Zip, Apt_no, State }
 - b. { Username } \rightarrow { PID, Password, DOB, Name, Email, Phone_no, City, Street, Zip, Apt_no, State }
 - c. { Name, Email } \rightarrow { PID, Password, DOB, Username, Phone_no, City, Street, Zip, Apt_no, State }
5. Route
 - a. { RID } \rightarrow { Source_CID, Dest_CID }
 - b. { Source_CID, Dest_CID } \rightarrow { RID }
6. City
 - a. { CID } \rightarrow { Name, State, Zip }
 - b. { Name, State } \rightarrow { CID, Zip }
 - c. { Name, Zip } \rightarrow { CID, State }

Team

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