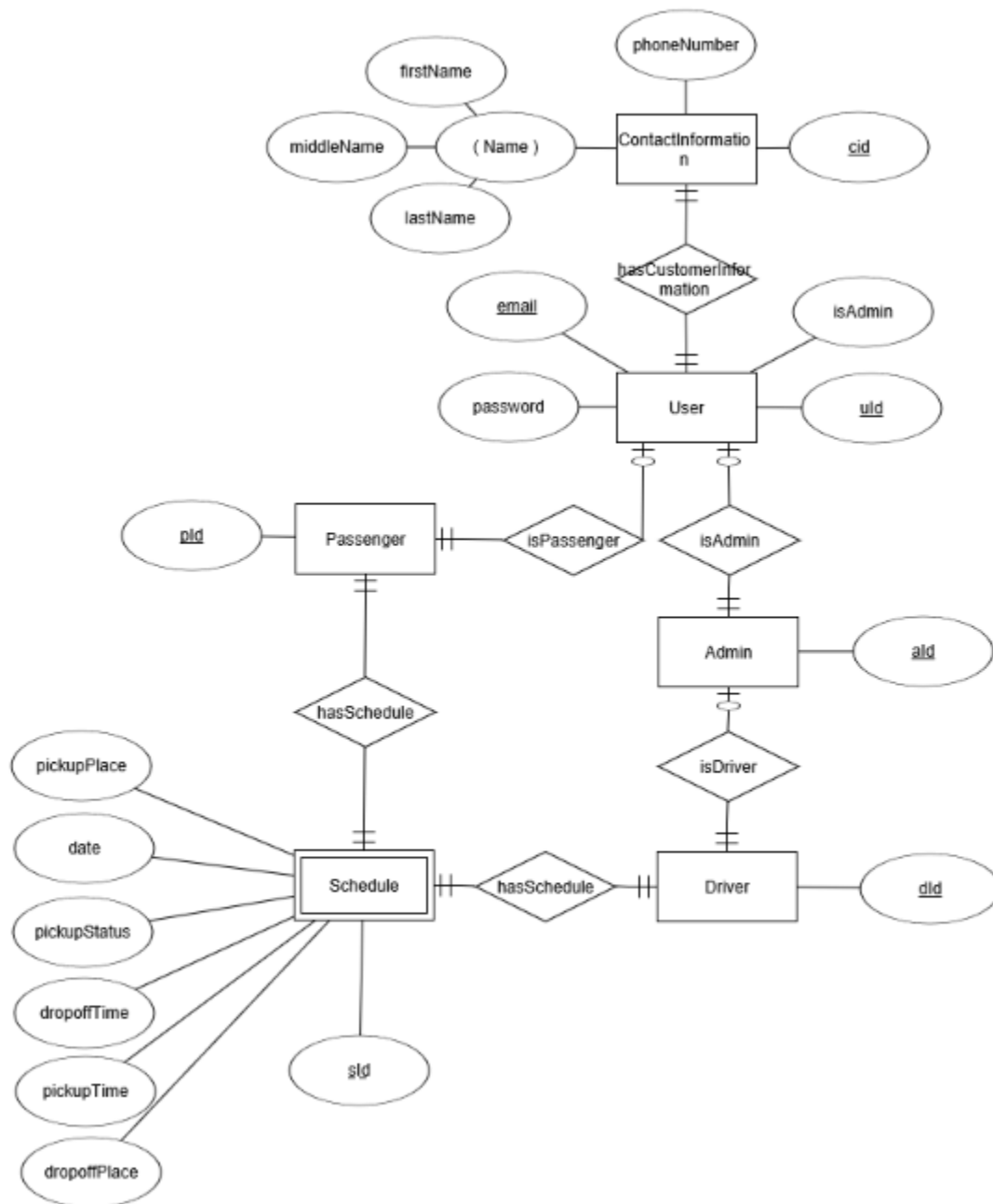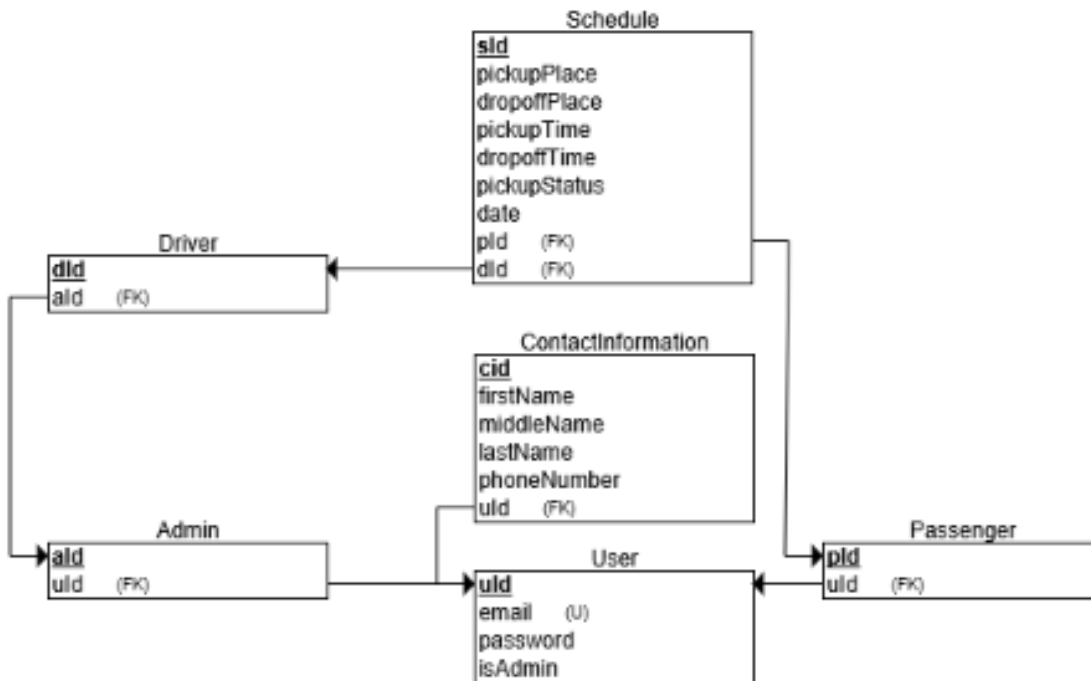Sultana Application Entities – Group 1

ER Model:

Relational Schema:

SQL Commands to create the tables:

```
CREATE TABLE User
(
  uId INT NOT NULL,
  email VARCHAR NOT NULL,
  password VARCHAR NOT NULL,
  isAdmin  NOT NULL,
  PRIMARY KEY (uId),
  UNIQUE (email)
);

CREATE TABLE ContactInformation
(
  cid INT NOT NULL,
  firstName VARCHAR NOT NULL,
  middleName VARCHAR NOT NULL,
  lastName VARCHAR NOT NULL,
  phoneNumber VARCHAR NOT NULL,
  uId INT NOT NULL,
  PRIMARY KEY (cid),
```

```sql
  FOREIGN KEY (uId) REFERENCES User(uId)
);

CREATE TABLE Passenger
(
  pId INT NOT NULL,
  uId INT NOT NULL,
  PRIMARY KEY (pId),
  FOREIGN KEY (uId) REFERENCES User(uId)
);

CREATE TABLE Admin
(
  aId INT NOT NULL,
  uId INT NOT NULL,
  PRIMARY KEY (aId),
  FOREIGN KEY (uId) REFERENCES User(uId)
);

CREATE TABLE Driver
(
  dId INT NOT NULL,
  aId INT NOT NULL,
  PRIMARY KEY (dId),
  FOREIGN KEY (aId) REFERENCES Admin(aId)
);

CREATE TABLE Schedule
(
  pickupPlace VARCHAR NOT NULL,
  sId INT NOT NULL,
  dropoffPlace VARCHAR NOT NULL,
  pickupTime DATE NOT NULL,
  dropoffTime DATE NOT NULL,
  pickupStatus VARCHAR NOT NULL,
  date DATE NOT NULL,
  pId INT NOT NULL,
  dId INT NOT NULL,
  PRIMARY KEY (sId),
  FOREIGN KEY (pId) REFERENCES Passenger(pId),
  FOREIGN KEY (dId) REFERENCES Driver(dId)
);
```