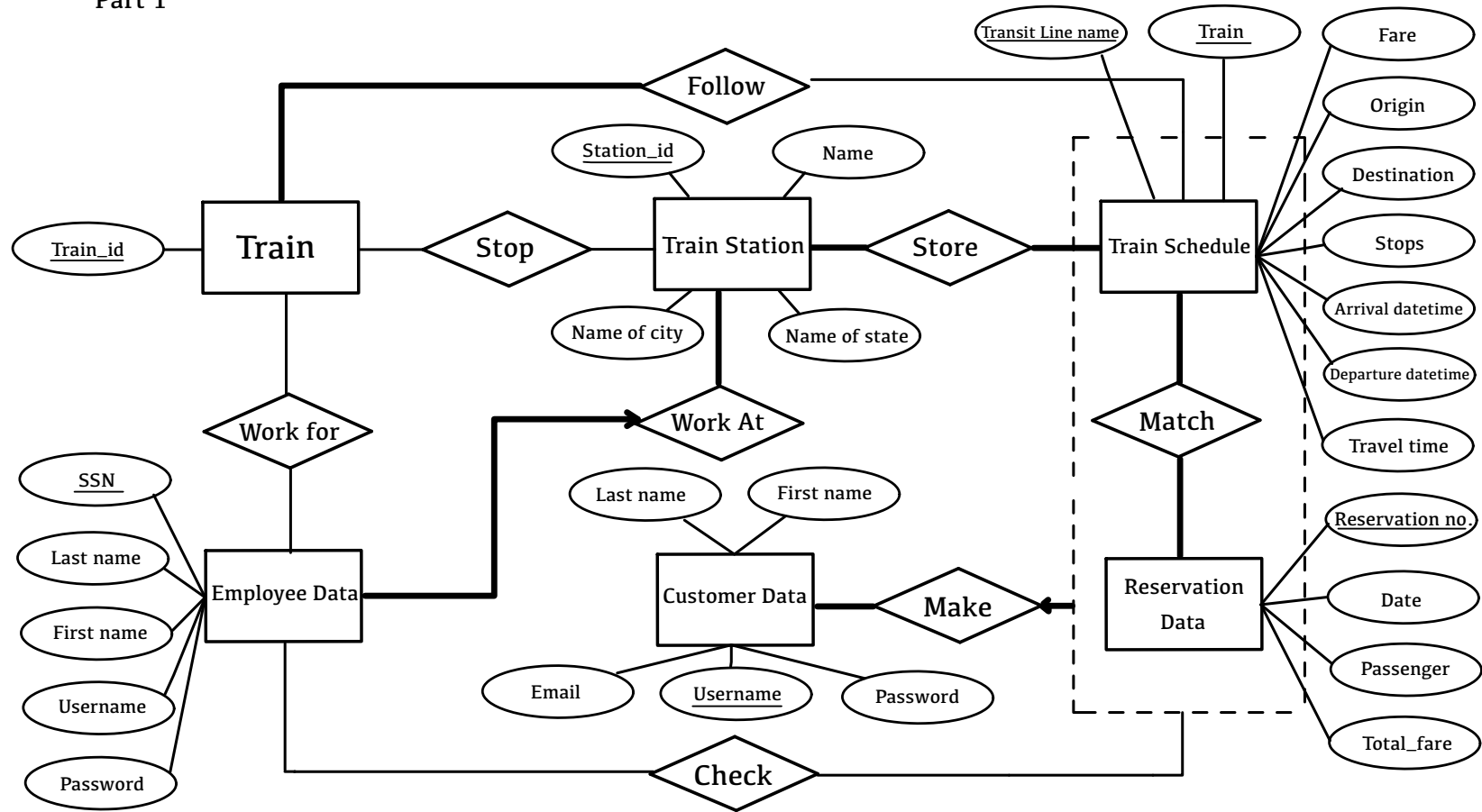


Group Project

Group 33

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Xudong Jiang	xj76
Yuxiang Wu	yw616
Teng Wang	tw504
Qinyang Cai	qc76

Part 1



```
CREATE TABLE Train
( train_id          VARCHAR(4),
  PRIMARY KEY (train_id));

CREATE TABLE Station
( station_id        INT,
  station_name      VARCHAR(255),
  name of city      VARCHAR(255),
  name of state:    VARCHAR (255),
  PRIMARY KEY (station_id));

CREATE TABLE Schedule
( TransitLinename   VARCHAR(255),
  Train             VARCHAR(255),
  Origin            VARCHAR(255),
  Destination       VARCHAR(255),
  Stops            VARCHAR(255),
  Departure_datetime DATETIME,
  Fare              NUMERIC(8,2),
  Arrival_datetime  DATETIME,
  travel time       TIME,
  PRIMARY KEY (TransitLinename, Train));

CREATE TABLE Customer
( Username          VARCHAR(255),
  Last name         VARCHAR(255),
  First name        VARCHAR(255),
  Password          VARCHAR(255),
  Email address     VARCHAR(255),
  PRIMARY KEY (Username));

CREATE TABLE Reservation
( Reservation_no.    INT,
  Date              DATE,
  Passenger         VARCHAR(255),
  Total Fare        NUMERIC(8,2),
  PRIMARY KEY (Reservation_no.));

CREATE TABLE Employee
( SSN               VARCHAR(15),
  Username          VARCHAR(255),
  Password          VARCHAR(255),
  Last name         VARCHAR(255),
  First name        VARCHAR(255),
```

PRIMARY KEY (SSN));

CREATE TABLE STOP

(train_id VARCHAR(4),
station_id VARCHAR(255),
PRIMARY KEY (train_id, station_id),
FOREIGN KEY (train_id) REFERENCES Train,
FOREIGN KEY (station_id) REFERENCES Station);

CREATE TABLE Work for

(train_id VARCHAR(4),
SSN VARCHAR(15),
PRIMARY KEY (train_id, SSN),
FOREIGN KEY (train_id) REFERENCES Train,
FOREIGN KEY (SSN) REFERENCES Employee);

CREATE TABLE Follow

(train_id VARCHAR(4),
TransitLinename VARCHAR(255),
Train VARCHAR(255)
PRIMARY KEY (train_id, TransitLinename, Train),
FOREIGN KEY (train_id) REFERENCES Train,
FOREIGN KEY (TransitLinename, Train) REFERENCES Schedule);

CREATE TABLE Store

(station_id INT,
TransitLinename VARCHAR(255),
Train VARCHAR(255),
PRIMARY KEY (station_id, TransitLinename, Train),
FOREIGN KEY (station_id) REFERENCES Station,
FOREIGN KEY (TransitLinename, Train) REFERENCES Schedule);

CREATE TABLE Work at

(station_id INT,
SSN VARCHAR(15),
PRIMARY KEY (SSN),
FOREIGN KEY (station_id) REFERENCES Station,
FOREIGN KEY (SSN) REFERENCES Employee);

CREATE TABLE Match

(TransitLinename VARCHAR(255),
Train VARCHAR(255)
Reservation_no. INT,
PRIMARY KEY (TransitLinename, Train, Reservation_no.),

FOREIGN KEY (TransitLinename, Train) REFERENCES Schedule,
FOREIGN KEY (Reservation_no.) REFERENCES Reservation);

CREATE TABLE Check

(SSN VARCHAR(15),
TransitLinename VARCHAR(255),
Train VARCHAR(255),
Reservation_no. INT,
PRIMARY KEY (SSN, TransitLinename, Train, Reservation_no.),
FOREIGN KEY (SSN) references Employee,
FOREIGN KEY (TransitLinename, Train) REFERENCES Schedule,
FOREIGN KEY (Reservation_no.) REFERENCES Reservation);

CREATE TABLE Make

(Username VARCHAR(255),
TransitLinename VARCHAR(255),
Train VARCHAR(255),
Reservation_no. INT ,
PRIMARY KEY (TransitLinename, Train, Reservation_no.),
FOREIGN KEY (Username) REFERENCES Customer,
FOREIGN KEY (TransitLinename, Train) REFERENCES Schedule,
FOREIGN KEY (Reservation_no.) REFERENCES Reservation);