CREATE TABLE IF NOT EXISTS Booking(

train\_id INT NOT NULL,  
cargo\_id INT NOT NULL,  
user\_id INT NOT NULL,  
booking\_status varchar(50),  
remaining\_seats INT,  
remaining\_capacity INT,  
booking\_date DATE,  
booking\_time DATE,  
departure\_time DATE,

PRIMARY KEY (user\_id),

FOREIGN KEY (train\_id) REFERENCES Train(train\_id),

FOREIGN KEY (user\_id) REFERENCES User(user\_id),

FOREIGN KEY (cargo\_id) REFERENCES Cargo(cargo\_id)

);

CREATE TABLE IF NOT EXISTS Train\_schedule(

schedule\_id INT NOT NULL,  
train\_id INT NOT NULL,  
arrival\_time DATE,  
departure\_time DATE,  
route\_id INT NOT NULL,  
Date DATE,

Job\_ID INT NOT NULL,

PRIMARY KEY (schedule\_id)

FOREIGN KEY (train\_id) REFERENCES Train(train\_id),

FOREIGN KEY (route\_id) REFERENCES Routes(route\_id),

FOREIGN KEY (Job\_id) REFERENCES Jobs(Job\_id)

);

CREATE TABLE IF NOT EXISTS User(

user\_id INT NOT NULL,  
First\_name VARCHAR(255),  
Last\_name VARCHAR(255),  
email VARCHAR(255),  
phone INT NOT NULL,  
password VARCHAR(255),  
age INT,  
seat\_status VARCHAR(255,  
ticket\_id INT NOT NULL,

PRIMARY KEY (user\_id),

FOREIGN KEY (ticket\_id) REFERENCES Tickets(ticket\_id),

FOREIGN KEY (user\_id) REFERENCES History(user\_id)

);

CREATE TABLE IF NOT EXISTS Tickets(

ticket\_id INT NOT NULL,

seat\_no INT,

PRIMARY KEY (ticket\_ID)

);

CREATE TABLE IF NOT EXISTS Train(

train\_id INT NOT NULL,  
train\_name VARCHAR(255),  
no\_of\_seats INT,  
type\_of\_seats varchar(255),  
type\_of\_train varchar(255),

PRIMARY KEY (train\_id)

);

CREATE TABLE IF NOT EXISTS Jobs(

Job\_ID INT NOT NULL,  
Job\_info VARCHAR(255),  
Date DATE,  
Job\_accepted Boolean,  
emp\_ID INT NOT NULL,  
schedule\_id INT NOT NULL,

PRIMARY KEY (Job\_ID),

FOREIGN KEY (emp\_ID) REFERENCES Staff(emp\_ID),

);

CREATE TABLE IF NOT EXISTS Station\_information(

station\_ID INT NOT NULL,  
station\_name VARCHAR(255),  
station\_capacity INT,  
train\_ID INT NOT NULL,

PRIMARY KEY (station\_ID)

);

CREATE TABLE IF NOT EXISTS Rewards(

Discount NUMERIC(5,2) ,  
Spent\_amount NUMERIC(5,2),  
Num\_rides INT,

PRIMARY KEY (Discount)

);

CREATE TABLE IF NOT EXISTS History(

user\_ID INT NOT NULL ,  
Num\_rides INT,  
train\_information VARCHAR(255),  
departure\_city\_name VARCHAR(255),  
arrival\_city\_name VARCHAR(255),  
spent\_amount NUMERIC(5,2),

PRIMARY KEY (UserID),

FOREIGN KEY (spent\_amount) REFERENCES Rewards(Discount)

);

CREATE TABLE IF NOT EXISTS Admin(

admin\_id INT NOT NULL,  
First\_name VARCHAR(255),  
Last\_name VARCHAR(255),  
email VARCHAR(255),  
password VARCHAR(255),  
phone INT,  
age INT

);

CREATE TABLE IF NOT EXISTS Routes(

route\_id INT NOT NULL,  
arrival\_station\_id INT NOT NULL,  
departure\_station\_id INT NOT NULL,  
distance NUMERIC(7,2),

train\_ID INT NOT NULL

FOREIGN KEY (departure\_station\_id) REFERENCES Departures(departure\_station\_id),

FOREIGN KEY (arrival\_station\_id) REFERENCES Departures(arrival\_station\_id)

);

CREATE TABLE IF NOT EXISTS Departures(

departure\_station\_id INT NOT NULL,

departure\_city\_name VARCHAR(255)

PRIMARY KEY (departure\_station\_id)

);

CREATE TABLE IF NOT EXISTS Arrivals(

arrival\_station\_id INT NOT NULL,

arrival\_city\_name VARCHAR(255)

PRIMARY KEY (departure\_station\_id)

);

CREATE TABLE IF NOT EXISTS Appoints(

admin\_id INT NOT NULL,  
emp\_id INT NOT NULL,

FOREIGN KEY (admin\_ID) REFERENCES Admin(admin\_ID),

FOREIGN KEY (emp\_ID) REFERENCES Staff(emp\_ID)

);

CREATE TABLE IF NOT EXISTS Staff(

emp\_id INT NOT NULL,  
First\_name VARCHAR(255),  
Last\_name VARCHAR(255),  
email VARCHAR(255),  
password VARCHAR(255),  
phone INT,  
age INT,  
train\_id INT NOT NULL

);

CREATE TABLE IF NOT EXISTS Cargo(

cargo\_id INT NOT NULL,  
train\_id INT NOT NULL,  
user\_id INT NOT NULL ,  
luggage\_capacity INT,  
route\_id INT NOT NULL,

PRIMARY KEY (cargo\_id)

);

CREATE TABLE IF NOT EXISTS Rewards(

Discount NUMERIC(5,2),  
Spent\_amount NUMERIC(5,2),  
Num\_rides INT,

PRIMARY KEY (Discount)

);