

IT214 DATABASE MANAGEMENT SYSTEM

PROJECT SUBMISSION

Database Title: GSRTC Reservation System

DDL Statements

Team Details

NAME	ID
Unnathi Machiraju	201501140
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```
CREATE TABLE Booking_Details
(

Booking_ID INT NOT NULL,
Transaction_Type VARCHAR(20) NOT NULL,
Booking_Mode VARCHAR NOT NULL,
Bus_Number INT NOT NULL,
Schedule_ID INT NOT NULL,
Route_ID INT NOT NULL,
Child INT NOT NULL,
Adult INT NOT NULL,
PRIMARY KEY (Booking_ID),
FOREIGN KEY (Schedule_ID,Route_ID,Bus_Number) REFERENCES "HAVING"
(Schedule_ID,Route_ID,Bus_Number) ON DELETE SET DEFAULT ON UPDATE CASCADE
);
```

```
CREATE TABLE PASSENGER

(

Gender CHAR(1) NOT NULL,

Mobile_Number INT NOT NULL,

Email_ID VARCHAR(20) NOT NULL,

Age INT NOT NULL,

Pname VARCHAR(20) NOT NULL,

Booking_ID INT NOT NULL,

Seat_Number INT NOT NULL,

PRIMARY KEY (Pname,Booking_ID),

FOREIGN KEY (Booking_ID) REFERENCES BOOKING_DETAILS (Booking_ID) ON DELETE SET DEFAULT ON UPDATE CASCADE
```

```
Bus

CREATE TABLE BUS

(

Bus_Type VARCHAR(20) NOT NULL,

Bus_Number INT NOT NULL,

Capacity INT NOT NULL,

PRIMARY KEY( Bus_Number)

);
```

```
"Having"

CREATE TABLE "HAVING"

(

Schedule_ID INT NOT NULL,

Route_ID INT NOT NULL,

Bus_Number INT NOT NULL,

Seats_Available INT NOT NULL,

FOREIGN KEY (Schedule_ID) REFERENCES BUS_SCHEDULE (Schedule_ID) ON DELETE SET DEFAULT ON UPDATE CASCADE,

FOREIGN KEY (Route_ID,Bus_Number) REFERENCES HAS_FARE_FOR (Route_ID,Bus_Number)

ON DELETE SET DEFAULT ON UPDATE CASCADE,

PRIMARY KEY (Schedule_ID, Route_ID, Bus_Number)

);
```

```
Route

CREATE TABLE ROUTE
(
Route_ID INT NOT NULL,
Origin VARCHAR(20) NOT NULL,
Destination VARCHAR(20) NOT NULL,
Distance INT NOT NULL,
PRIMARY KEY (Route_ID)
);
```

```
CREATE TABLE HAS_FARE_FOR

(

Adult_Fare NUMERIC(10,0) NOT NULL,
Child_Fare NUMERIC(10,0) NOT NULL,
Route_ID INT NOT NULL,
Bus_Number INT NOT NULL,
PRIMARY KEY(Route_ID, Bus_Number),
FOREIGN KEY (Route_ID) REFERENCES ROUTE(Route_ID) ON DELETE SET DEFAULT ON
UPDATE CASCADE,
FOREIGN KEY (Bus_Number) REFERENCES BUS (Bus_Number) ON DELETE SET DEFAULT ON
UPDATE CASCADE
);
```