PROJECT PART I
BESTLINES BUS CO.

BUS
Table for buses
  {LicensePlateID, BusType, BusState, Capacity}

- LicensePlateID is the primary key.

OFFICE EMPLOYEE
Table for office employees
  {EmployeeID, SalesOfficeID, EnglishOrNot }

- EmployeeID is the primary key.

BUS DRIVERS
Table for bus drivers
  {EmployeeID, MonthlyUpperLimit, DrivingLicenceNo, DrivingLicenceDate}

- EmployeeID is the primary key.

ROUTE
Table for all routes
  {RouteCode, Origin, Destination}

- RouteCode is the primary key.

ROUTE SEGMENT
Table for all route segments
  {RouteSegmentID, Origin, Destination, SegmentDuration, SegmentPrice}

- RouteSegmentID is the primary key.

ROUTE SEGMENT DETAILS
Table for route segments on routes
  {RouteCode, RouteSegmentID}

- RouteCode and RouteSegmentID is the composite primary key.
- RouteCode is a foreign key to RouteCode column in ROUTE table.

- RouteSegmentID is a foreign key to RouteSegmentID column in ROUTE SEGMENT table

PASSENGER TRIP DETAILS
Table for route segments on each passenger trip
      {PassengerTripID, RouteSegmentID}

- PassengerTripID and RouteSegmentID is the composite primary key.
- PassengerTripID is a foreign key to PassengerTripID column in PASSENGER TRIP table
- RouteSegmentID is a foreign key to RouteSegmentID column in ROUTE SEGMENT table.

PASSENGER TRIP
Table for passenger trip
      {PassengerTripID, Origin, Destination, PassengerTripPrice, PassengerTripDuration**}**

- PassengerTripID is the primary key.

WEEKLY SCHEDULE
Table for weekly trip schedule
      {ScheduleID, RouteCode, Date, Time, LicensePlateID}

- ScheduleID is the primary key.
- RouteCode is a foreign key to RouteCode column in ROUTE table.
- LicensePlateID is a foreign key to LicensePlateID column in BUS table.

DRIVER-SCHEDULE DETAILS
Table for schedule of drivers
      {ScheduleID, EmployeeID}

- ScheduleID and EmployeeID is the composite primary key.
- ScheduleID is a foreign key to ScheduleID column in WEEKLY SCHEDULE table.
- EmployeeID is a foreign key to EmployeeID column in BUS DRIVERS table.

SALES OFFICE
Table for sales offices
      {SalesOfficeID, City, Address, PhoneNumber}

- SalesOfficeID is the primary key.

CUSTOMER

Table for customers

{<u>CustomerID</u>, Name, PhoneNumber, Email, TotalBonus}

- CustomerID is the primary key.

TICKET

Table for tickets

{<u>TicketID</u>, CustomerID, ScheduleID, PassengerTripID, SeatNumber, SalesOfficeID, BonusPerTicket, PaymentType}

- TicketID is the primary key.
- CustomerID is a foreign key to CustomerID column in CUSTOMER table.
- ScheduleID is a foreign key to ScheduleID column in WEEKLY SCHEDULE table.
- PassengerTripID is a foreign key to PassengerTripID column in PASSENGER TRIP table.
- SalesOfficeID is a foreign key to SalesOfficeID column in SALES OFFICE table.