Problem Statement:

Julia's Salon has recently expanded and hired more staff. They offer haircuts, styling, and hair dyes. There are several employees that may offer their services during each day. They currently track bookings in a paper-based diary and simple written receipts for customers. Our team has been hired to create an application that would help her track appointments to ease workflows.

The system will manage appointments made by the customers. Each appointment has a unique ID, start time, and end time. The appointment also contains reference to customer and employee. The employee is linked to an appointment due to their own individual rate that they charge per hour. Customer details may be stored for future reference to allow for future bookings, without having to enter the contact details again. The customer has a customer ID, name, contact number and email address.

Each employee will also have their information stored in the system. It will contain their rate, first name, last name, and contact number. Each employee will also be assigned a unique ID.

Customers will be given a bill at the end of their haircut. The total will be calculated by including the employee rate, taxes that may apply, and any products that may have been used. Products that may be used during an appointment have their own product id, name, and price.

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Customer

PK String CustomerID
String Name
String ContactNumber
String Email

Appointment

PK String AppointmentID
FK String CustomerID
FK String EmployeeID
String AppointmentType
DATE StartTime
DATE endTime
Double EmployeeRate

Bill

PK String bill_ID
Double subTotal
Double Tax
Double Total

BillProduct

FK String Bill_ID
FK String ProductID
int quantity

Employee

PK employeeID
Double employeeRate
String firstName
String lastName
String phoneNumber

Product

PK String ProductID
String ProductName
Double Price