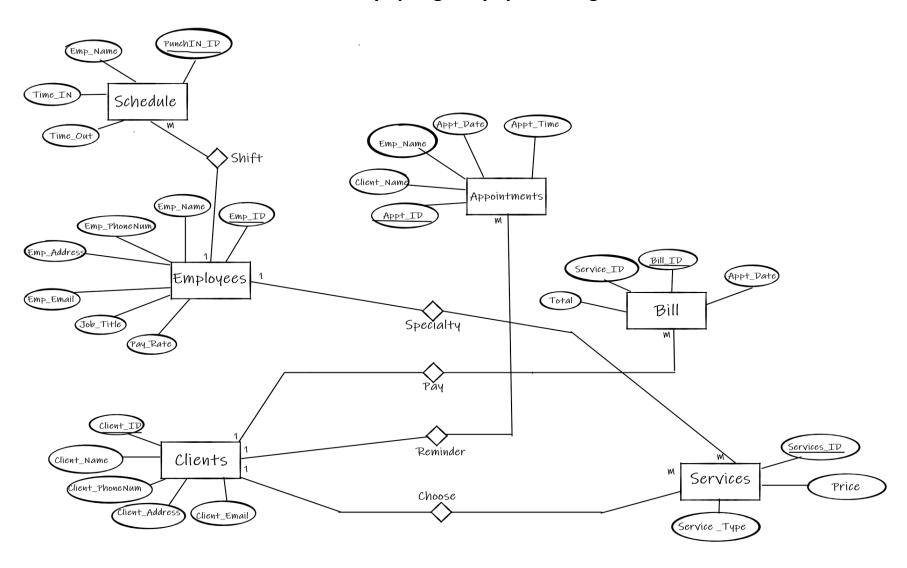
Serenity Springs Day Spa ER Diagram



Brayan Chacha Assignment04 Professor Lehuta Due 9/30/2020

Entities

Clients

Employees

Schedule

Appointments

Bill

Services

Attributes

Entity -> Clients

Attributes: Client_ID, Client_Name, Client_PhoneNum, Client_Address, Client_Email

Entity -> Employees

Attributes: Emp_ID, Emp_Name, Emp_PhoneNum, Emp_Address, Emp_Email, Job_Title, Pay_Rate

Entity -> Appointments

Attributes: Appt_ID, Client_Name, Emp_Name, Appt_Date, Appt_Time

Entity -> Schedule

Attributes: PunchIn ID, Emp_Name, Time_In, Time_out

Brayan Chacha Assignment04 Professor Lehuta Due 9/30/2020 Entity -> Bill

Attributes: Bill_ID, Service_ID, Total, Appt_Date

Entity -> Services

Attributes: Services_ID, Price, Service_Type

Relationships

Clients and Services => One – to – Many (Choose)

Clients and Appointments => One - to - Many (Visit)

Clients and Bill => One – to – Many (Pay)

Employees and Services => One – to – Many (Specialty)

Employees and Schedule => One - to - Many (Shift)

Relational Schema

1a. Entities -> Clients, Employees, Schedule, Appointments, Bill, Services

```
Clients (Client ID, Client Name, Client PhoneNum, Client Address, Client Email)
```

Employees (Emp_ID, Emp_Name, Emp_PhoneNum, Emp_Address, Emp_Email, Job_Title, Pay_Rate)

Appointments (Appt ID, Client_Name, Emp_Name, Appt_Date, Appt_Time)

Schedule (PunchIn ID, Emp_Name, Time_In, Time_out)

Bill (Bill ID, Service_ID, Total, Client_ID, Appt_Date)

Service (Service ID, Price, Service_Type)

- 1b. Strong Entities that are Subtypes
- 1c. No weak entities
- 2a. One to One relationships -> **None**
- 2b. One to Many relationships -> Services, Appointments, Bill, Schedule

Services (Services ID, Price, Service_Type, Client_ID†)

Appointments (Appt_ID, Client_Name, Emp_Name, Appt_Date, Appt_Time, Client_ID†)

Bill (Bill ID, Service_ID, Total, Client_ID, Appt_Date, Client_ID†)

Brayan Chacha Assignment04 Professor Lehuta Due 9/30/2020

Schedule (PunchIn ID, Emp_Name, Time_In, Time_out, Emp_ID†)

2c. Many – to – many relationships **None**

Final Schema

Clients (Client ID, Client_Name, Client_PhoneNum, Client_Address, Client_Email)

Employees (Emp ID, Emp_Name, Emp_PhoneNum, Emp_Address, Emp_Email, Job_Title, Pay_Rate)

Services (Services ID, Price, Service_Type, Client_ID†)

Appointments (Appt_ID, Client_Name, Emp_Name, Appt_Date, Appt_Time, Client_ID†)

Bill (Bill ID, Service_ID, Total, Appt_Date, Client_ID†)

Schedule (PunchIn ID, Emp_Name, Time_In, Time_out, Emp_ID†)

Keys and Foreign Keys

<u>Underline</u> = Primary Key

Italics† = Foreign Key