CIS2109 Final Project
Group 1: Beauty Salon

Finalized business rules:

Synopsis: A beauty salon needs to keep information about customers, employees, managing appointments, and scheduling employee work hours.

1. Our beauty salon offers two types of **offerings**: **products** and **services**, both identified by an offering ID, name, description, and price.
2. **Employees** are identified by an employee ID, first name, and last name. Employees are of one specific type, (ex: stylist, makeup artist).
3. **Customers** can book **appointments** for **services**. Customers request these services, and the total time needed for the appointment is estimated based on these requests.
4. Each **appointment** has an appointment ID, deposit fee, date, time, and cost, and is associated with one employee and one customer.
5. Each **employee** can perform any number of services. Additionally, each employee fills out any number of preferred **timeslots,** (identified by timeslot ID, day of the week, start time, and end time), which allows for the creation of a **schedule**.
6. A **schedule** is identified by a schedule ID. The schedule is associated with one timeslot ID and one employee for each given day.
7. Customers can make any number of **payments** for any number of offerings (products or services). The quantity of offerings purchased is recorded for each payment.
8. **Products** are detailed in the **supply orderline**, identified by orderline ID, quantity, and purchase price.
9. Each orderline is supplied by one **supply order**, although each supply order may be associated with any number of **supply orderlines**.
10. The salon keeps track of **suppliers** through identifiers such as the supplier ID and name. Each supplier provides any number of supply orders.

ER Diagram:

Employee Type
P	*	EmployeeTypeID	NUMERIC
		Name	VARCHAR
		Description	VARCHAR

🔑 Employee Type PK (EmployeeTypeID)

Timeslot
P	*	Timeslot_ID	NUMERIC
		Day of week	VARCHAR
		Start time	NUMERIC
		End time	NUMERIC

🔑 Timeslot PK (Timeslot_ID)

prefers
is preferred

Appointment
P	*	Appointment_ID	NUMERIC
		Date	Date
		Time	Datetime
		Deposit_Fee	NUMERIC
F	*	Customer_ID	NUMERIC
F	*	Employee_ID	NUMERIC

🔑 Appointment PK (Appointment_ID)

schedules
is scheduled

Customer
| P | * | Customer_ID | NUMERIC |
| | | Name | VARCHAR |

🔑 Customer PK (Customer_ID)

Employee
P	*	Employee_ID	NUMERIC
	*	FName	VARCHAR
	*	LName	VARCHAR
F		EmployeeTypeID	NUMERIC

🔑 Employee PK (Employee_ID)

Emp Hourly
| | * | Hourly Rate | NUM |

Emp Salary
| | * | salary | NU |

assigned

Schedule
P	*	Schedule_ID	NUMERIC
F	*	Timeslot_ID	NUMERIC
F	*	Employee_ID	NUMERIC

🔑 Schedule PK (Schedule_ID)

is contained
contains
is assigned

performs
is performed

Services Requested
		Est Total Time	NUMERIC
PF	*	Appointment_ID	NUMERIC
PF	*	Service_ID	NUMERIC

🔑 Services Requested PK (Service_ID,

makes
is made

Payment
		Total Amount	NUMERIC
F	*	Customer_ID	NUMERIC
P	*	Payment ID	Unknown
		Payment Type	VARCHAR

🔑 Payment PK (Payment ID)

Offerings
P	*	Offering ID	NUMERIC
		Name	VARCHAR
		Desc	VARCHAR
		Price	NUMERIC

| Quantity | NUMERIC |

Service
| P | * | Service_ID | NUM |

🔑 Service PK (Service_I

Product
| * | Product_ID | NUM |

Product PK (Product

Supply OrderLine
P	*	Orderline ID	NUMERIC
		Quantity	NUMERIC
		Purchase Price	NUMERIC
F	*	Order_ID	NUMERIC
F	*	Product_ID	NUMERIC

🔑 Supply OrderLine PK (Orderline ID)

is contained
contains

Supply Order
P	*	Order_ID	NUMERIC
F	*	Supplier_ID	NUMERIC
		Delivery Date	Date

🔑 Supply Order PK (Order_ID)

provides
is provided

Supplier
| P | * | Supplier_ID | NUMERIC |
| | | Name | VARCHAR |

🔑 Supplier PK (Supplier_ID)