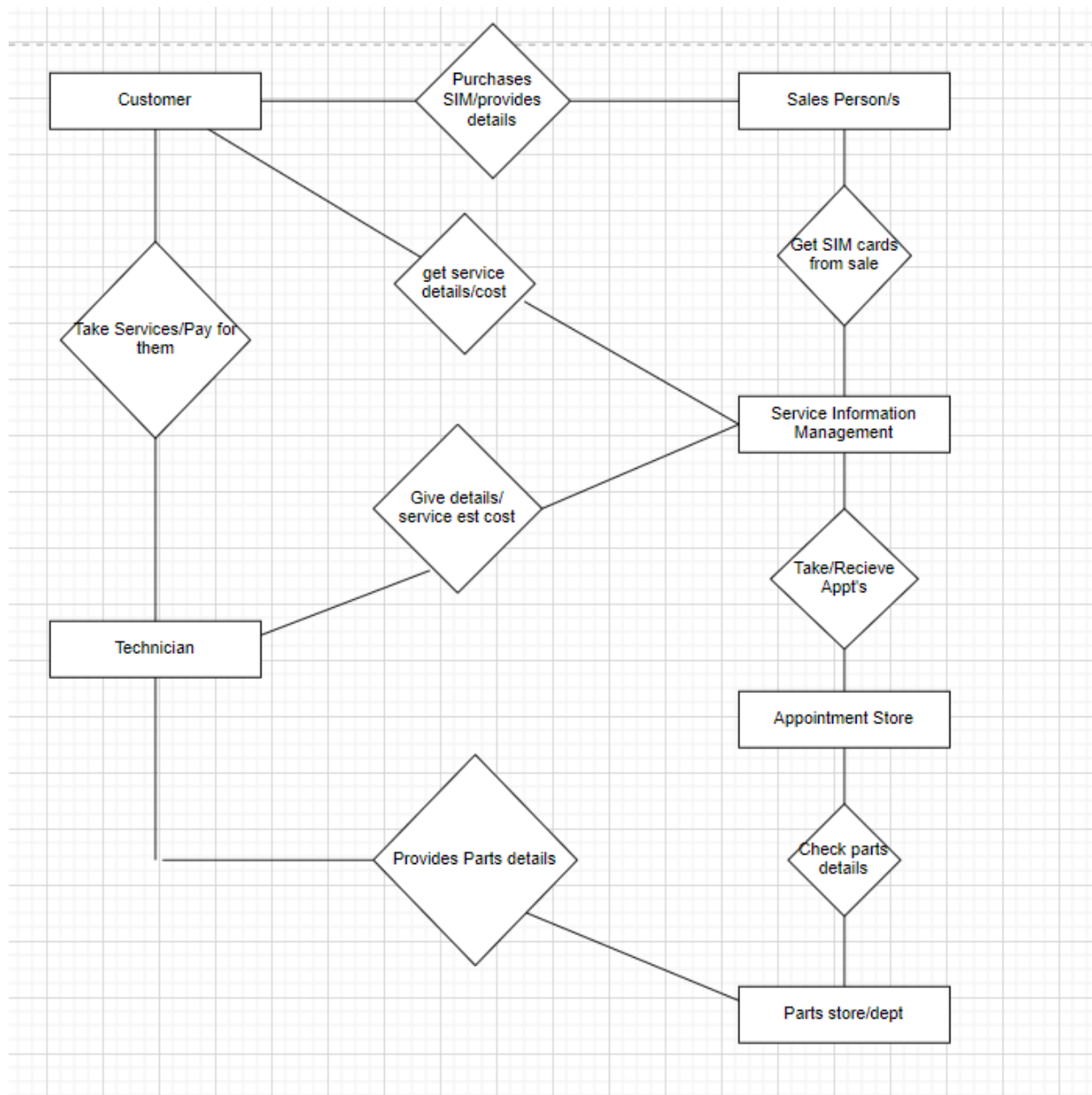


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- ERD
- Database Design
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Entity-Relationship Diagram



Database Design: M:1: Just a prototype, might add more rows in tables/ data insertion

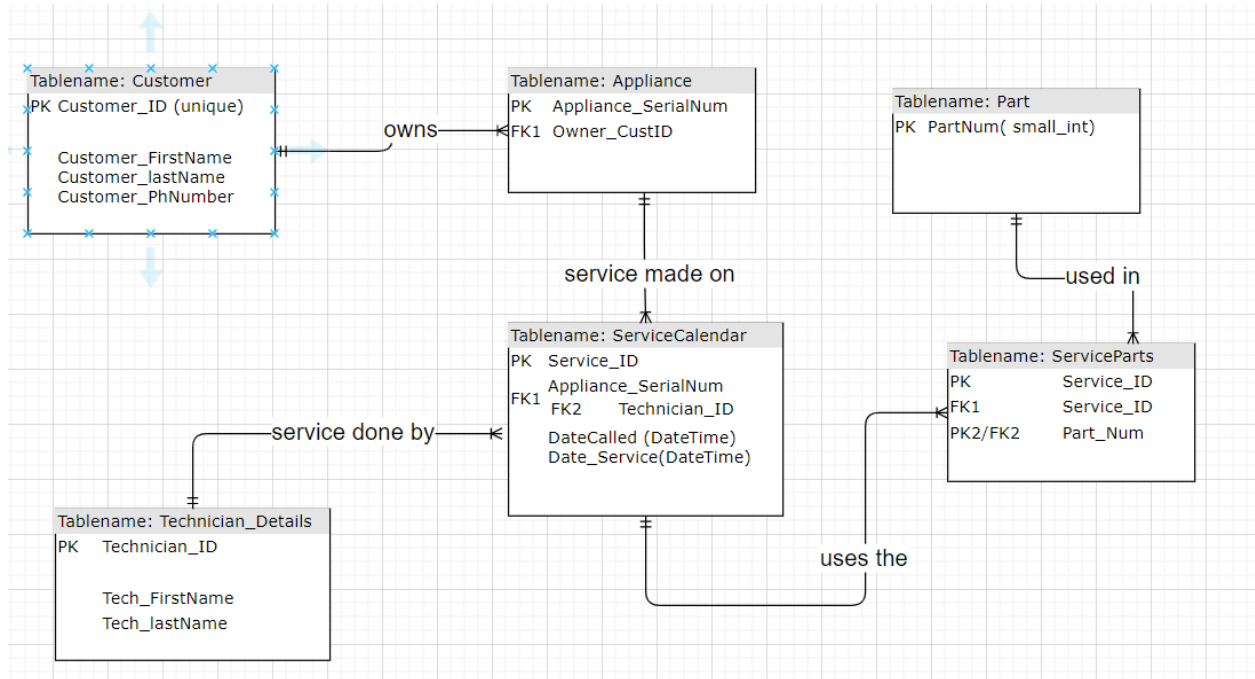


Table Creation : Using the entities listed above

```
> create table if not exists Customer(  
  Customer_ID int not null primary key,  
  Customer_Name varchar(50) not null,  
  Customer_PhNumber varchar(13) not null,  
  Customer_Email varchar(20) unique not null,  
  Customer_Address varchar(85)  
);  
  
> create table if not exists Appliance(  
  Appliance_SerialNum varchar(30) not null primary key,  
  Customer_ID int not null,  
  ApplianceName varchar(34),  
  Foreign key (Customer_ID) references Customer_Name(Customer)  
);  
  
⊖ create table if not exists Part(  
  Part_Num varchar(20) not null primary key  
);  
  
⊖ create table if not exists Service_Parts(  
  Part_Num varchar(20) not null primary key,  
  Service_ID varchar(80) primary key,  
  foreign key (Part_Num ) REFERENCES Part(Part_Num),  
  foreign key (Service_ID) REFERENCES ServiceCalendar(Service_ID)  
);  
  
> create table if not exists ServiceCalendar(  
  Service_ID varchar(80) primary key,  
  Serial_Num int not null,  
  DateCalled date,  
  Date_of_Service date,  
  Technician_ID int not null,  
  FOREIGN KEY (Technician_ID ) REFERENCES Technician(Technician_ID ),  
  FOREIGN KEY (Serial_Number ) REFERENCES Appliance(Appliance_SerialNum)  
);  
  
> create table if not exists Technician (  
  Technician_ID int not null primary key,  
  Tech_FirstName varchar(22),  
  Tech_LastName varchar(22),  
  PartsOrdered varchar(100)  
);
```

Data Insertion: 3 Dummy Data into each table

Tables: Customer, Appliance, Part, Service_part, Service_Calendar, Technician

```
insert into Customer (Customer_ID, Customer_Name, Customer_PhNumber, Customer_Address)
values
(1, "Sophie Goldberg", "508-555-1256", "123 Main St, Hopkinton, MA"),
(2, "Mitch Chu", "617-555-9898", "5525 Winter Rd, Medford, MA"),
(3, "Jamie Fernandez", "617-555-4125", "2 Hope St, Hull, MA");
```

```
insert into Appliance (Customer_ID, Serial_Num, Appliance_Name)
values
(1, "KN-78-215-896", "Refrigerator"),
(2, "WP-55-311-698", "Dishwasher"),
(3, "Dishwasher", "WP-78-956-694");
```

```
insert into Part()
values
("KN-1256"),
("WP-1788"),
("WP-8877");
```

```
insert into Service_Parts()
values
("KN-1256", "Robles"),
("WP-1788", "Wong"),
("WP-8877", "Henson");
```

```
insert into ServiceCalendar (ServiceID, Serial_Num, DateCalled, Date_of_Service)
values
("Robles", "KN-78-215-896", "01-06-2022", "01-10-2022"),
("Wong", "WP-55-311-698", "01-06-2022", "01-07-2022"),
("Henson", "WP-78-956-694", "01-07-2022", "01-09-2022");
```

```
insert into Technician (Technician_ID, Technician_Name, Parts_Ordered)
values
(0101, "Robles", "KN-1256"),
(0102, "Wong", "WP-1788"),
(0103, "Henson", "WP-8877");
```