DOG SALON DATABASE DESIGN DOCUMENT

Narrative: ZOOM

Dapper Dog Salon is a pet salon located in the Tampa Bay area that serves many customers every day. They pride themselves on ensuring that every dog that visits their shop leaves looking better and smelling cleaner, with a wagging tail of satisfaction. The Salon wants to design a database to track the business process described below. Dapper Dog Salon tracks their customers (dog owners). They register each customer to keep their information up to date and to have the ability to contact customers. The Salon tracks each customer's name, address, phone number, email. The Salon also tracks each dog's name, breed, temperament, date of birth, and age. Dogs are owed by customers. A customer can have more than one dog. A dog can be picked up by a customer or an authorized family member. Family members are registered to a customer for pickup permission which allows them to access their family's dog(s) at the salon. The Salon purchases products from wholesale groomer supply stores. The product information is tracked by product number and the product description such as shampoo, styling tools, bows, nail clippers, combs, and other similar items. The Salon has a list of wholesale groomer supply stores that they purchase from. The orders come directly from the supplier. They track the name, address, and phone number of the supplier. Some suppliers offer more than one item and some items come from more than one supplier. The Salon provides services that customers select for their dogs to receive. The services are tracked by type and description of service. The Salon wants to track which products are used for which service so they can be efficient in product ordering. Some services use no products, while other services may use more than one. A product may have multiple uses for different services. They also want to track which employees provide which services to which dogs on which dates. Services offered such as washes, haircuts, hair styles, nail trimming, nail painting, and flea treatments. Customers have the option to arrange a set of preferred services for their dog that are automatically performed whenever a dog is dropped off. The Salon maintains simple employee information: name, address and phone number. An employee may perform one or more services for a dog.

Actors and Roles:

Customer: A customer can own one or more than one dogs. Customers choose one or more services for their dogs.

Family: Any family member of a customer can pick up the dog after service. A customer can have none or many family members.

Dog: A dog can only have one and only one owner and can receive one or multiple services.

Services: One or more services can be given to the dogs by the employees. A service may use one or more products and some services do not use any products.

Preferred Services: Customers have the option to arrange a set of preferred services for their dog that are automatically performed whenever a dog is dropped off.

Products: All products are supplied by one or more suppliers.

Suppliers: A supplier can offer one or more products.

Employee: An employee can provide one or more services to a dog. Not all employees provide service to the same dog.

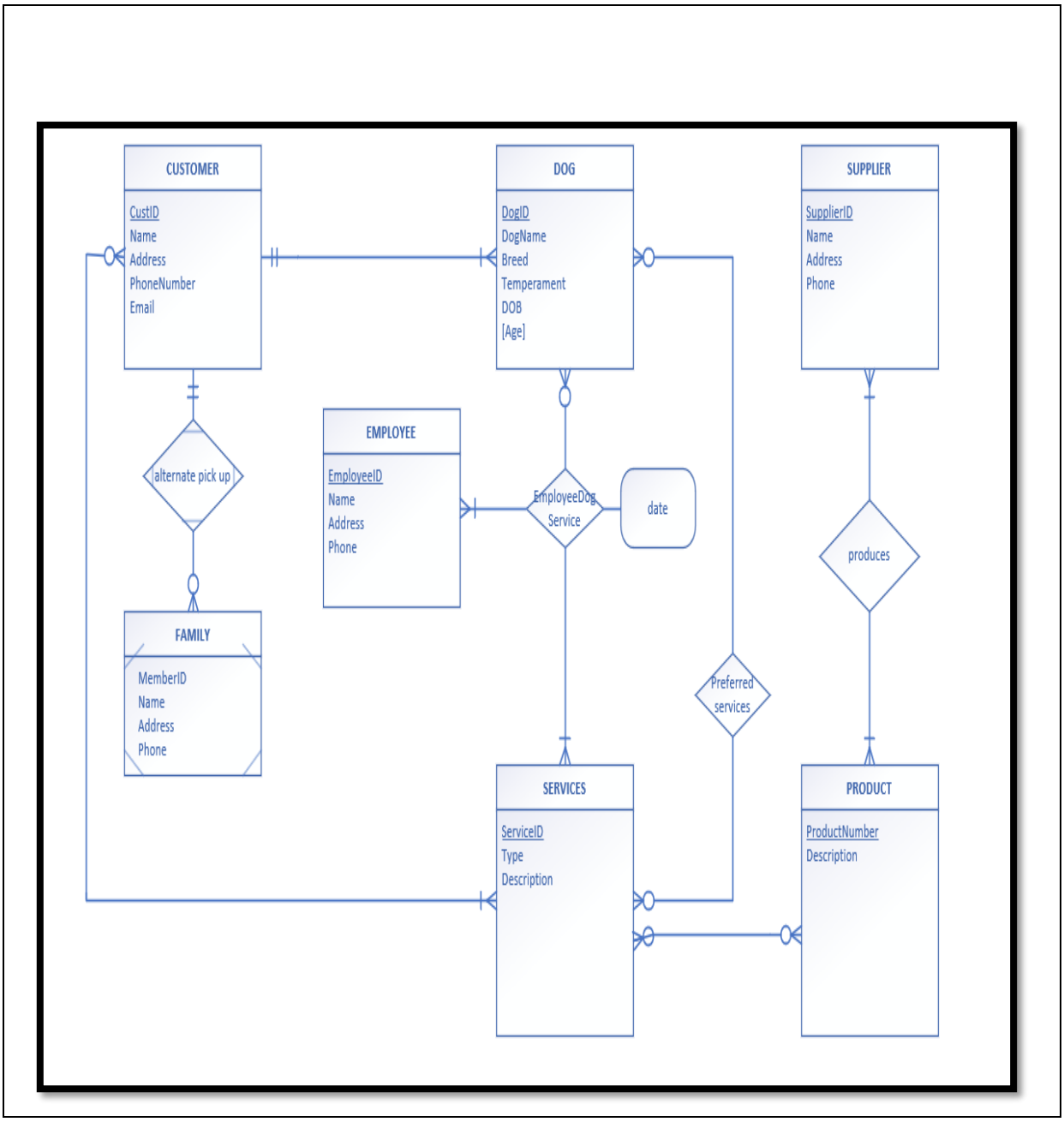

Fig.1: Entity Relationship Diagram

ERD of the Dog Salon Database is the structural diagram showing the database design.

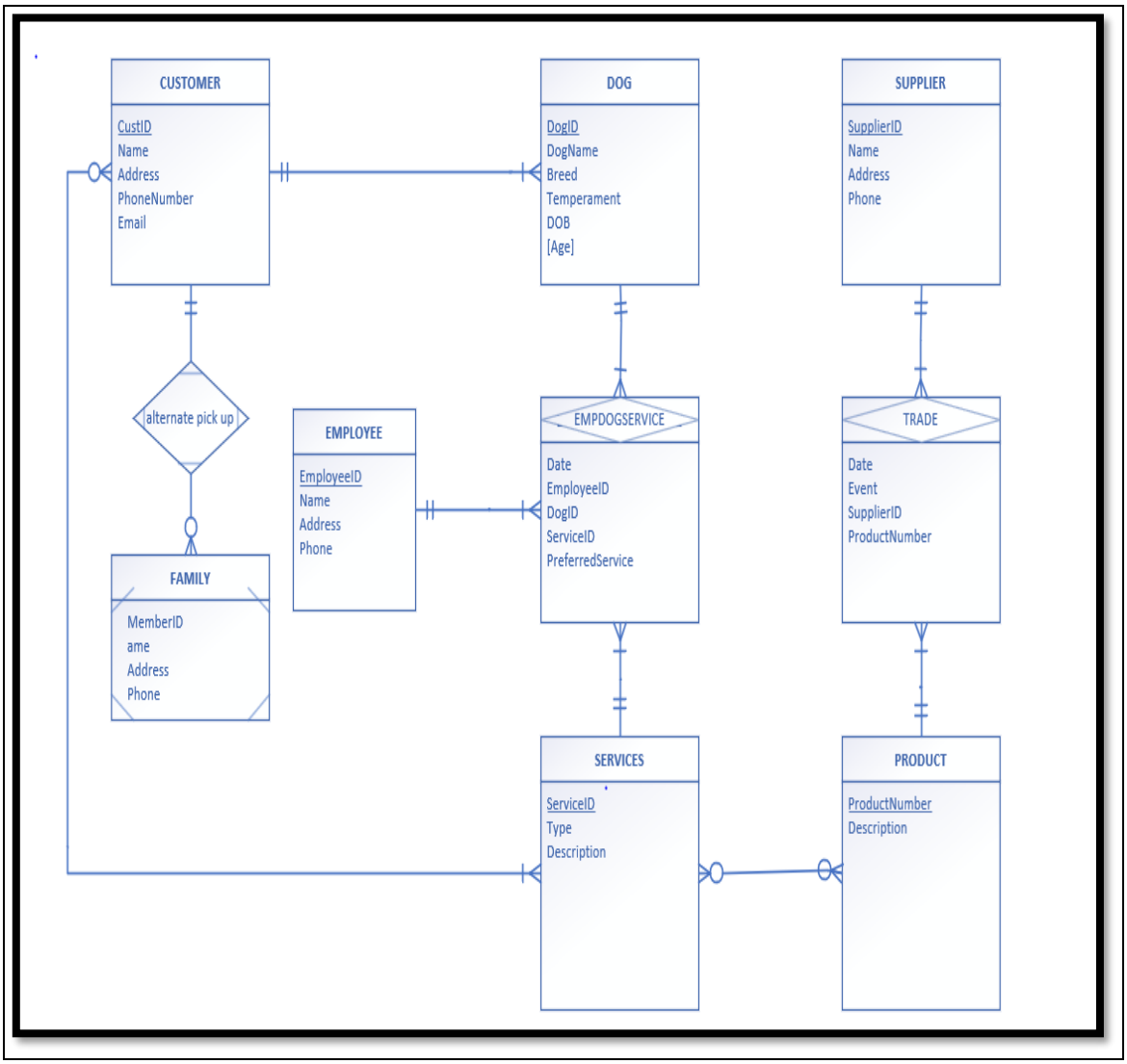

Fig.2: Enhanced Entity Relationship Diagram

EERD shows a more detailed structure of the database including associative entities.

RELATIONAL SCHEMA:

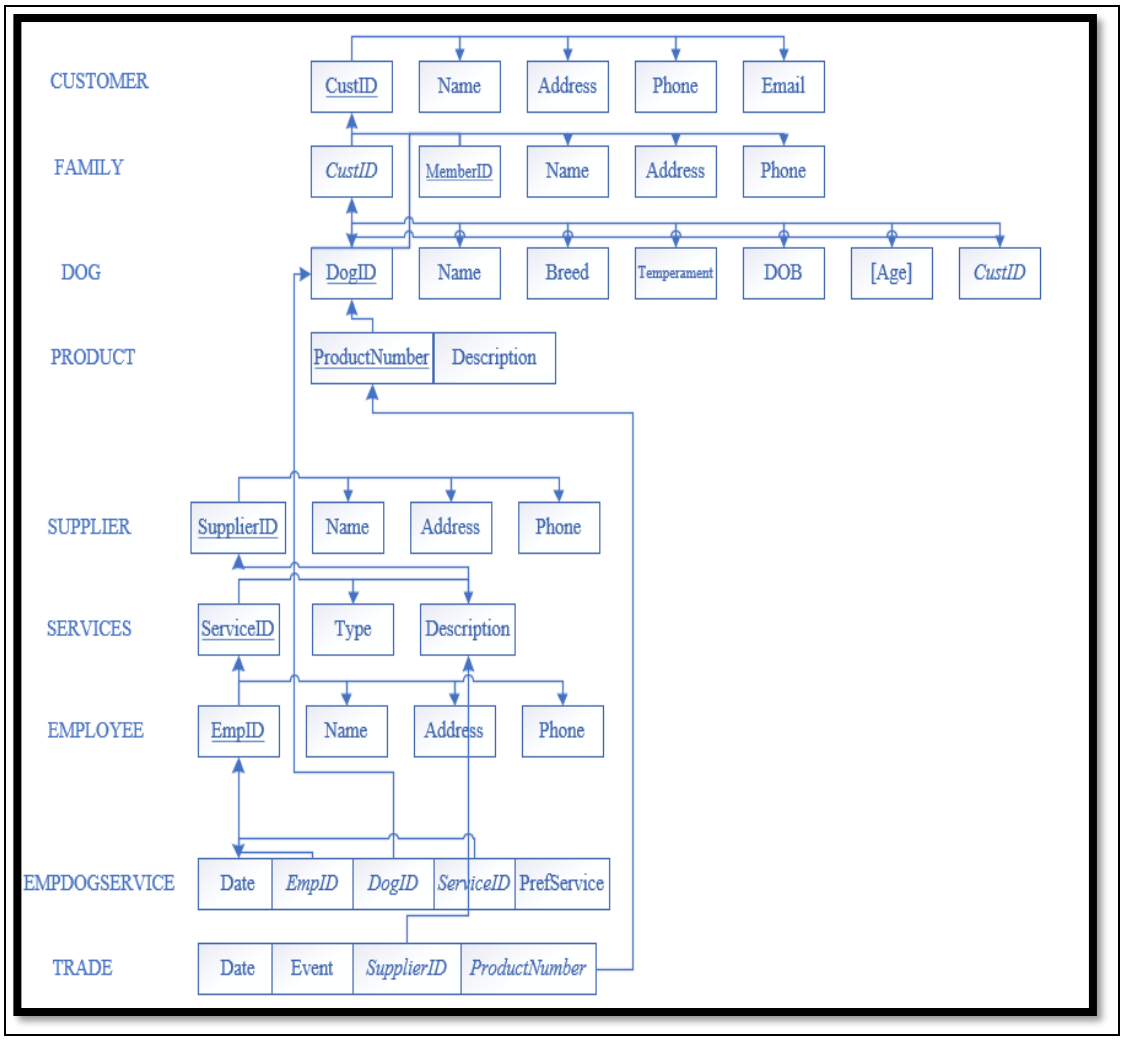

Fig 3. Relationship Schema

DATA DICTIONARY

FAMILY MEMBER

COLUMN NAME	DESCRIPTION	DATA TYPE	SIZE	IDENTITY	UNIQUE	DEFAULT	CHECK	ALLOW NULLS	INDEX
CustID		int		Y	Y				Y
FamID		int		Y	Y				Y
Name		nchar	20						

CUSTOMER

COLUMN NAME	DESCRIPTION	DATA TYPE	SIZE	IDENTITY	UNIQUE	DEFAULT	CHECK	ALLOW NULLS	INDEX
CustID		int		Y	Y				Y
FirstName		nchar	20						
LastName		nchar	20						
Street		nvarchar	50						
City		nchar	20						
State		nchar	2						
Phone		int							
Email		nvarchar	50						

DOG

COLUMN NAME	DESCRIPTION	DATA TYPE	SIZE	IDENTITY	UNIQUE	DEFAULT	CHECK	ALLOW NULLS	INDEX
DogID		int		Y	Y				Y
Name		nchar	10						
Breed		nchar	10						
Temper		nchar	10						
DOB		date							
Age		int					= (GETDATE() – DOB))/365		
CustID		int							

PREFERRED SERVICE

COLUMN NAME	DESCRIPTION	DATA TYPE	SIZE	IDENTITY	UNIQUE	DEFAULT	CHECK	ALLOW NULLS	INDEX
DogID		int		Y	Y				Y
PrefService		nchar	10	Y	Y				Y

SERVICE

COLUMN NAME	DESCRIPTION	DATA TYPE	SIZE	IDENTITY	UNIQUE	DEFAULT	CHECK	ALLOW NULLS	INDEX
ServiceID		int		Y	Y				Y
Descrip		nvarchar	50						
price		money							

SERVICE PROVIDED

COLUMN NAME	DESCRIPTION	DATA TYPE	SIZE	IDENTITY	UNIQUE	DEFAULT	CHECK	ALLOW NULLS	INDEX
TransactionID		int		Y	Y				Y
Date		date							
DogID		int							
EmployeeID		int							
ServiceID		int							

EMPLOYEE

COLUMN NAME	DESCRIPTION	DATA TYPE	SIZE	IDENTITY	UNIQUE	DEFAULT	CHECK	ALLOW NULLS	INDEX
EmpID		int		Y	Y				Y
FirstName		nchar(10)							
LastName		nchar(10)							
Street		nvarchar(50)							
City		nchar(10)							
State		nchar(2)							
Phone		int							
Email		nvarchar(50)							

SERVICE PRODUCT

COLUMN NAME	DESCRIPTION	DATA TYPE	SIZE	IDENTITY	UNIQUE	DEFAULT	CHECK	ALLOW NULLS	INDEX
ServiceID		int		Y	Y				Y
ProductID		int		Y	Y				Y
Units		int							

PRODUCT

COLUMN NAME	DESCRIPTION	DATA TYPE	SIZE	IDENTITY	UNIQUE	DEFAULT	CHECK	ALLOW NULLS	INDEX
ProductID		int		Y	Y				Y
Name		nchar(10)							
Descrip		nvarchar(50)							
UnitsOnHand		int							
CostPerUnit		int							

ORDER

COLUMN NAME	DESCRIPTION	DATA TYPE	SIZE	IDENTITY	UNIQUE	DEFAULT	CHECK	ALLOW NULLS	INDEX
OrderNo		int		Y	Y				Y

DateOrdered		date							
DateArrived		date							
Quantity		int							
SupplierID		int							
ProductID		int							

SUPPLIER

COLUMN NAME	DESCRIPTION	DATA TYPE	SIZE	IDENTITY	UNIQUE	DEFAULT	CHECK	ALLOW NULLS	INDEX
SupplierID		int		Y	Y				Y
Name		nchar(10)							
Street		nvarchar(20)							
City		nchar(20)							
State		nchar(2)							
Zip		int							
Phone		int							

Database Diagram