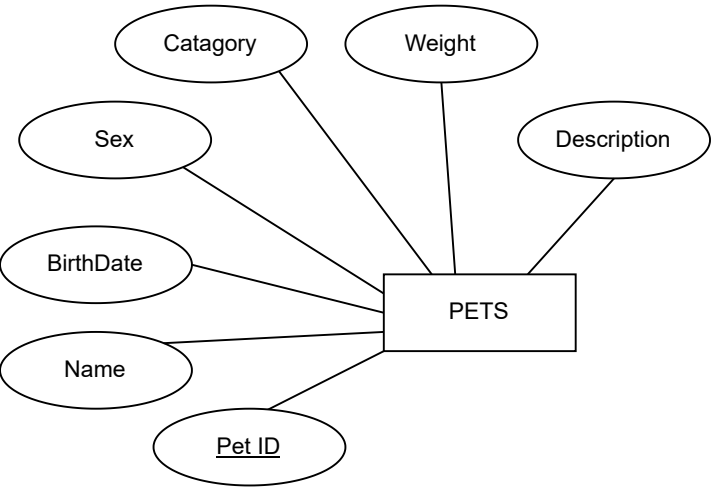


Pets Shelter Database Data Collection in ER-Form and Functional Dependencies and Normalization
By- Mesafnt Kalu



PETS

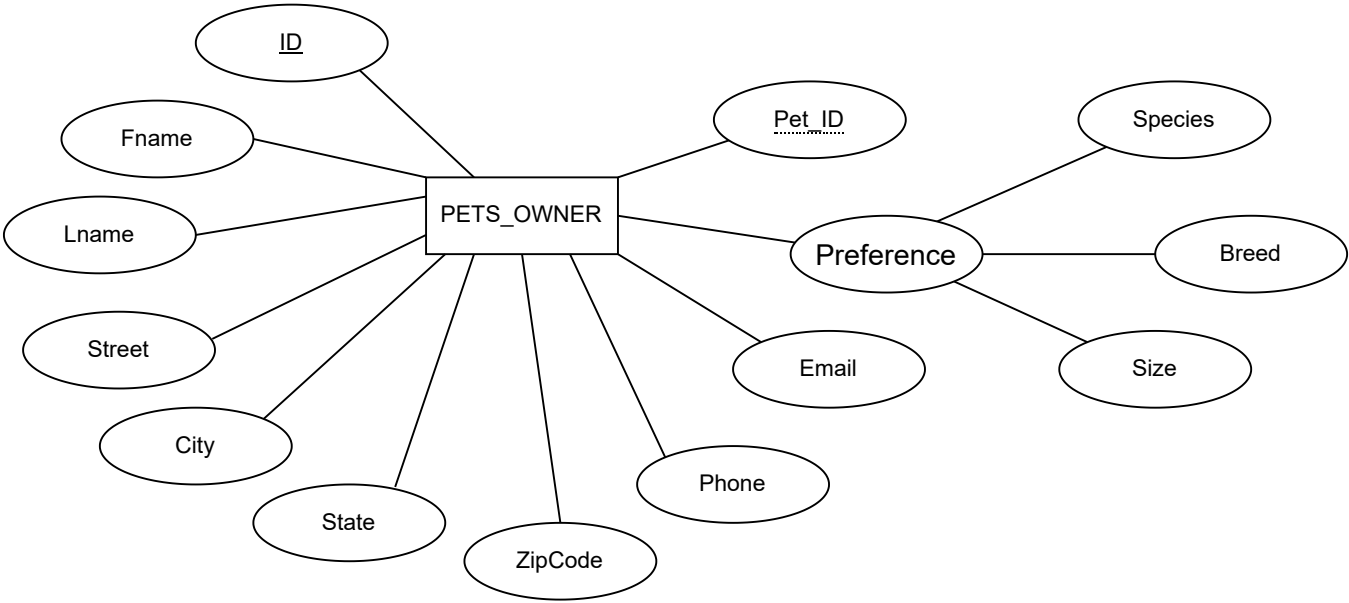
<u>Pet ID</u>	Name	BirthDate	Sex	Catagory	Weight	Description
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PETS

<u>Pet ID</u>	Name	BirthDate	Sex	Catagory	Weight	Description
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3NF

FD1



PETS OWNER										
ID	Fname	Lname	Street	City	State	ZipCode	Phone	Email	<u>Pet_ID</u>	Performance

MultiValued Att

PETS OWNER												
ID	Fname	Lname	Street	City	State	ZipCode	Phone	Email	<u>Pet_ID</u>	Size	Breed	Species

PETS OWNER												
<u>ID</u>	Fname	Lname	Street	City	State	ZipCode	Phone	Email	<u>Pet_ID</u>	Size	Breed	Species

FD1

FD2

2NF

ID → {Fname,Lname, Street, City, State, ZipCode, Phone, Email,Pet_ID{Size,Breed, Species}}

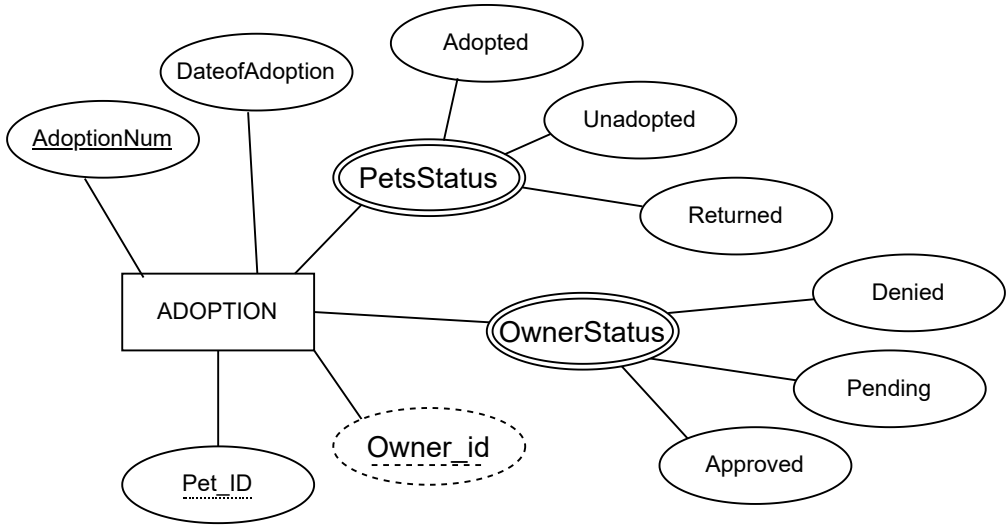
PETS OWNER								
ID	Fname	Lname	Street	City	State	ZipCode	Phone	Email

FD1

PETS 1				
<u>PET_ID</u>	Size	Breed	Species	<u>ID</u>

FD2

3NF



ADOPTION

AdoptionNum	DateofAdoption	PetsStatus	OwnerStatus	Owner_id	Pet_ID
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Composite Att
MultiValued Att

Composite Att
MultiValued Att

ADOPTION

AdoptionNum	DateofAdoption	Pet_ID	Owner_id	Returned	Adopted	Unadopted	Approved	Pending	Denied
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ADOPTION

<u>AdoptionNum</u>	DateofAdoption	<u>Pet_ID</u>	Owner_id	Returned	Adopted	Unadopted	Approved	Pending	Denied
--------------------	----------------	---------------	----------	----------	---------	-----------	----------	---------	--------

FD1

FD2

FD3

AdoptionNum → {DateofAdoption,Pet_ID, Owner_id, {Returned, Adopted, Unadopted, {Approved, Pending, Denied}}}

ADOPTION

<u>AdoptionNum</u>	DateofAdoption	<u>Pet_ID</u>	Owner_id
--------------------	----------------	---------------	----------

FD1

Pet_ID → {Owner_id,Returned, Adopted, Unadopted, {Approved, Pending, Denied}}

PET STATUS

<u>Pet_ID</u>	Owner_id	Returned	Adopted	Unadopted	Approved	Pending	Denied
---------------	----------	----------	---------	-----------	----------	---------	--------

FD2

FD3

ADOPTION

AdoptionNum	DateofAdoption
-------------	----------------

FD1

PET STATUS

<u>Pet_Id</u>	Returned	Adopted	Unadopted
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FD2

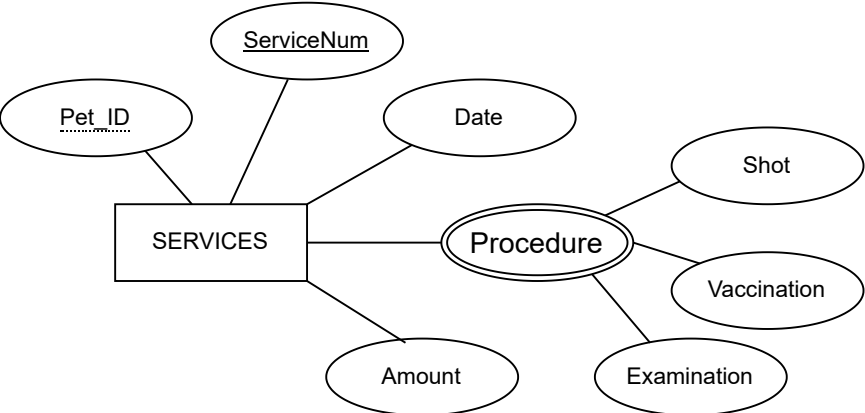
OWNER STATUS

<u>Owner_id</u>	Approved	Pending	Denied	Returned	<u>AdoptionNum</u>	<u>Pet_ID</u>
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FD3

2NF

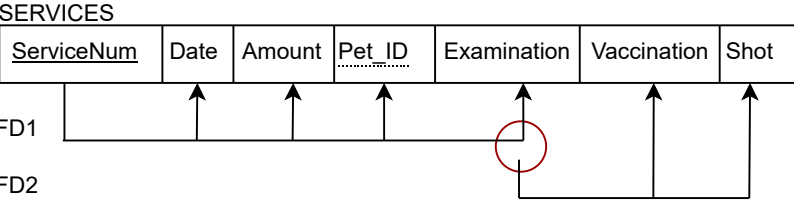
3NF



Composite Att
MultiValued Att

SERVICES				
ServiceNum	Date	Procedure	Amount	Pet ID

SERVICES						
ServiceNum	Date	Amount	Pet ID	Examination	Vaccination	Shot

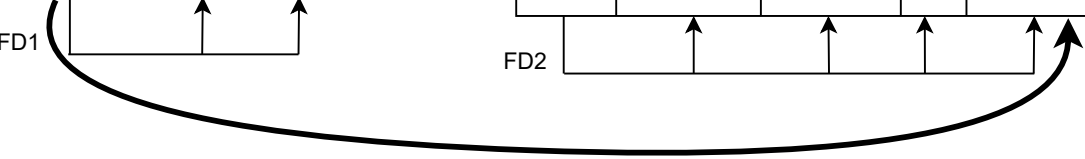


2NF

ServiceNum → {Date, Amount, Pet ID, Examination, Vaccination, Shot}

SERVICES		
ServiceNum	Date	Amount

PET_MEDICAL				
Pet id	Examination	Vaccination	Shot	ServiceNum



3NF