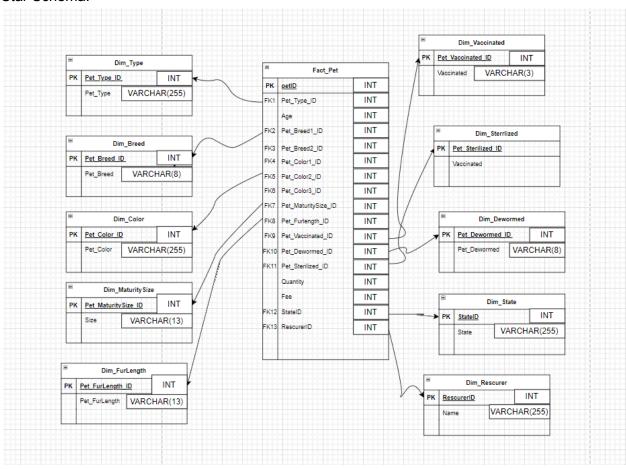
### **PETFINDER**

# 1) Entity-Relationship Diagram

#### Star Schema:



Pet\_Fact: Primary (Fact) table contains pet information

**Dim Type:** Dimension table contains pet's type information

**Dim\_Breed:** Dimension (Fact) table contains pet's breed information **Dim\_Color:** Dimension (Fact) table contains pet's color information

Dim\_MaturitySize: Dimension (Fact) table contains pet's maturity size information

**Dim\_FurLength:** Dimension (Fact) table contains pet's fur length information

Dim\_Vaccinated: Dimension (Fact) table contains pet's vaccination condition information Dim\_Dewormed: Dimension (Fact) table contains pet's dewormed condition information Dim\_Sterilized: Dimension (Fact) table contains pet's sterilized condition information

**Dim\_State:** Dimension (Fact) table contains pet's state information **Dim\_Rescurer:** Dimension (Fact) table contains rescurer's information

# 2) OUERY TEST

# Query:

```
-- Number of Vaccinated, Dewormed, Sterilized Pet

SELECT

COUNT(CASE WHEN V.Pet_Vaccinated = 'Yes' THEN F.PetID ELSE NULL END) AS num_vaccinated_pet,
COUNT(CASE WHEN D.Pet_Dewormed = 'Yes' THEN F.PetID ELSE NULL END) AS num_dewormed_pet,

COUNT(CASE WHEN S.Pet_Sterilized = 'Yes' THEN F.PetID ELSE NULL END) AS num_sterilized_pet

FROM Fact_Pet F

LEFT JOIN Dim_Vaccinated V ON F.Pet_Vaccinated_ID = V.Pet_Vaccinated_ID

LEFT JOIN Dim_Dewormed D ON F.Pet_Dewormed_ID = D.Pet_Dewormed_ID

LEFT JOIN Dim_Sterilized S ON F.Pet_Sterilized_ID = S.Pet_Sterlized_ID
```

#### Result:

	num_vaccinated_pet	num_dewormed_pet	num_sterilized_pet
1	5899	8395	3102

### Query:

```
-- 2 types of Pet

SELECT

t.Pet_Type,

COUNT(f.Pet_Type_ID ) AS Total_Case,

SUM(f.Quantity) AS Total_Number,

SUM(f.Fee) AS Total_Price

FROM Fact_Pet f

LEFT JOIN Dim_Type t ON t.Pet_Type_ID = f.Pet_Type_ID

GROUP BY t.Pet_Type;

-- Number of breeds

SELECT COUNT(DISTINCT Pet_Breed_ID) AS num_breeds

FROM Dim_Breed;
```

#### Result:

	Pet_Type	Total_Case	Total_Number	Total_Price
1	Cat	6861	11213	121140
2	Dog	8132	12414	197419

#### Query:

```
-- Types of FurLength

SELECT

1.Pet_Furlength,
COUNT(f.Pet_Type_ID ) AS Total_Case,
SUM(f.Quantity) AS Total_Number,
SUM(f.Fee) AS Total_Price
FROM Fact_Pet f
LEFT JOIN Dim_FurLength 1 ON 1.Pet_Furlength_ID = f.Pet_FurLength_ID
GROUP BY 1.Pet_Furlength;
```

# Result:

E						
	Pet_Furlength	Total_Case	Total_Number	Total_Price		
1	Not Specified	1	1	1		
2	Long	824	1050	73822		
3	Short	8807	14138	130997		
4	Medium	5361	8438	113739		

# ETL Design:

