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**Project 2 Report**

## ERD

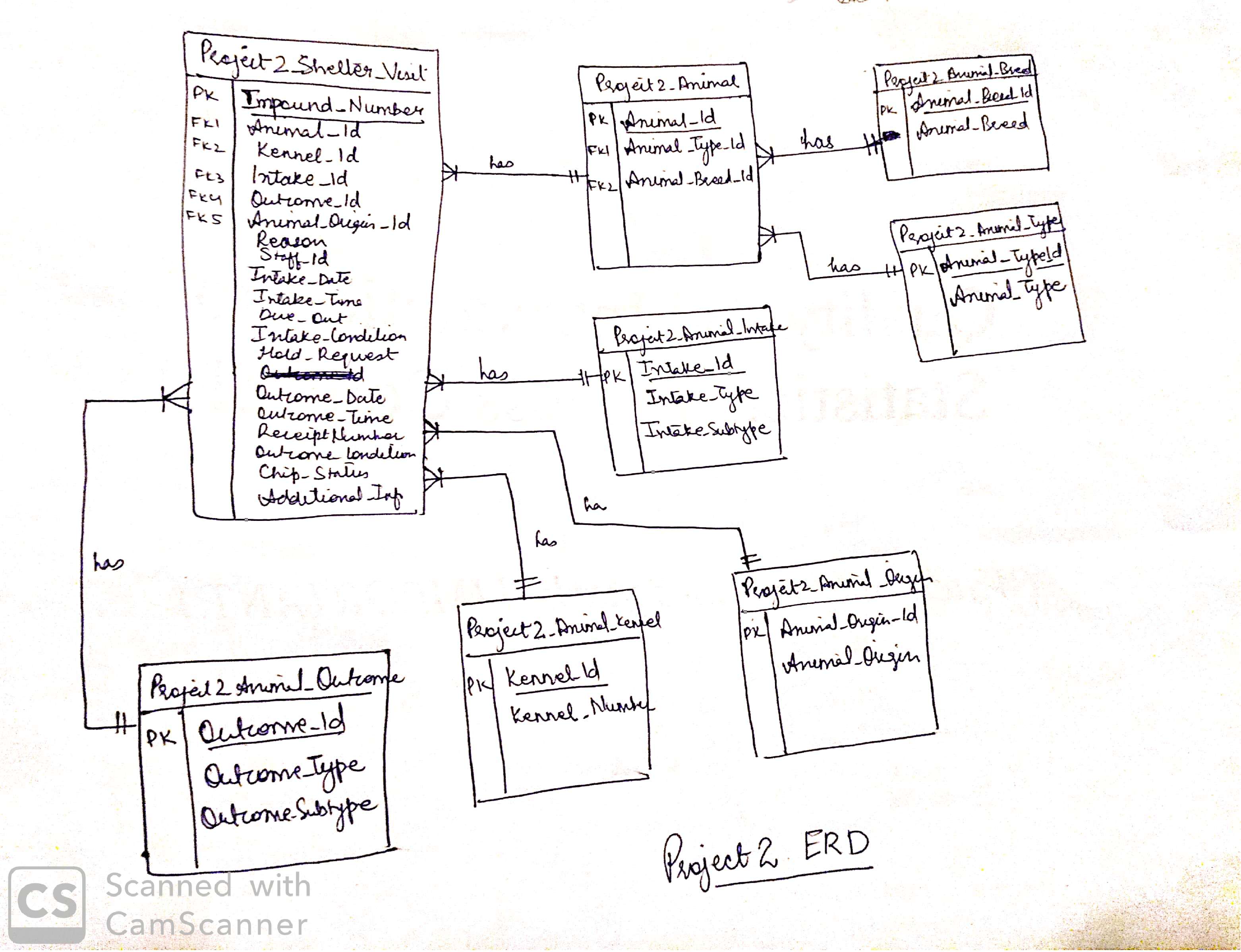


Figure 1: ERD

## SQL scripts to create and populate the tables

create table project2\_animal\_type as (select rownum as Animal\_type\_id,animal\_type from (select distinct animal\_type from project2\_data\_load));

create table project2\_animal\_breed as (select rownum as Animal\_breed\_id,animal\_breed from (select distinct animal\_breed from project2\_data\_load));

create table project2\_animal\_origin as (select rownum as animal\_origin\_id, animal\_origin from (select distinct(animal\_origin) from project2\_data\_load where animal\_origin is not null) );

create table project2\_animal\_outcome as (select rownum as outcome\_id, tab1.\* from(select outcome\_type, outcome\_subtype from project2\_data\_load group by outcome\_type, outcome\_subtype order by outcome\_type, outcome\_subtype)tab1);

create table project2\_animal\_intake as (select rownum as intake\_id, tab1.\* from(select intake\_type, intake\_subtype from project2\_data\_load group by intake\_type, intake\_subtype order by intake\_type, intake\_subtype)tab1);

CREATE TABLE PROJECT2\_ANIMAL AS (selecT DISTINCT pdl.animal\_id, PAT.ANIMAL\_TYPE\_ID,pab.animal\_BREED\_ID from project2\_data\_load pdl,project2\_animal\_type pat, project2\_animal\_breed pab where pdl.animal\_type= pat.animal\_type and pdl.animal\_breed=pab.animal\_breed);

create table project2\_animal\_kennel as (select rownum as kennel\_id, kennel\_number from (select distinct(kennel\_number) from project2\_data\_load order by kennel\_number));

create table project2\_shelter\_visit as( select distinct pdl.impound\_number, pdl.animal\_id, pak.kennel\_id,ai.intake\_id,pdl.reason ,pdl.staff\_id, pdl.intake\_date, pdl.intake\_time, pdl.due\_out,pdl.intake\_condition ,pdl.hold\_request,

ao.outcome\_id, pdl.outcome\_date,pdl.outcome\_time,pdl.receipt\_number, pdl.outcome\_condition,pdl.chip\_status, aor.animal\_origin\_id,pdl.additional\_information

from project2\_data\_load pdl, project2\_animal an, project2\_animal\_intake ai, project2\_animal\_outcome ao, project2\_animal\_origin aor , project2\_animal\_kennel pak

where pdl.animal\_id=an.animal\_id

and (pdl.intake\_type=ai.intake\_type and pdl.intake\_subtype=ai.intake\_subtype)

and (pdl.outcome\_type=ao.outcome\_type and pdl.outcome\_subtype=ao.outcome\_subtype)

and (pdl.animal\_origin=aor.animal\_origin or nvl(pdl.animal\_origin,'UNKNOWN')= aor.animal\_origin)

and pdl.kennel\_number=pak.kennel\_number);

## List of normalized tables and counts of records per table

1. Project2\_Animal - 71823
2. project2\_animal\_type - 6
3. project2\_animal\_breed -324
4. project2\_animal\_origin - 5
5. project2\_animal\_outcome - 80
6. project2\_animal\_intake - 43
7. project2\_animal\_kennel - 1065
8. project2\_shelter\_visit - 87669

## SQL scripts to generate the reports and Reports

**Report1**

**Query**: select animal\_type, animal\_breed,Percentage\_of\_animals\_survived ,total\_animals, year from (select tab1.animal\_type, tab1.animal\_breed,round((tab1.animals\_survived/tab2.total\_animals)\*100,2) as Percentage\_of\_animals\_survived, tab1.animals\_survived, tab2.total\_animals, tab1.year from

(select pat.animal\_type, pab.animal\_breed ,to\_char(sv.intake\_date,'YYYY') as year, count(pab.animal\_breed) as animals\_survived

from project2\_animal\_type pat,project2\_animal\_breed pab,project2\_shelter\_visit sv, project2\_animal ani,project2\_animal\_outcome ao

where sv.outcome\_id=ao.outcome\_id

and sv.outcome\_id is not null

and sv.animal\_id=ani.animal\_id

and pab.animal\_breed\_id=ani.animal\_breed\_id

and ani.animal\_type\_id=pat.animal\_type\_id

and ao.outcome\_type not in ('DIED','DEAD ON ARRIVAL','EUTHANIZED')

and pat.animal\_type in ('CAT','DOG')

and to\_char(sv.intake\_date,'YYYY')>='2016'

group by pat.animal\_type, pab.animal\_breed,to\_char(sv.intake\_date,'YYYY') having count(pab.animal\_breed)>200 ) tab1

inner join

(select pat.animal\_type, pab.animal\_breed ,to\_char(sv.intake\_date,'YYYY') as year, count(pab.animal\_breed) as total\_animals

from project2\_animal\_type pat,project2\_animal\_breed pab,project2\_shelter\_visit sv, project2\_animal ani,project2\_animal\_outcome ao

where sv.outcome\_id=ao.outcome\_id

and sv.outcome\_id is not null

and sv.animal\_id=ani.animal\_id

and pab.animal\_breed\_id=ani.animal\_breed\_id

and ani.animal\_type\_id=pat.animal\_type\_id

and pat.animal\_type in ('CAT','DOG')

and to\_char(sv.intake\_date,'YYYY')>='2016'

group by pat.animal\_type, pab.animal\_breed,to\_char(sv.intake\_date,'YYYY') having count(pab.animal\_breed)>200 )tab2

on tab1.animal\_breed=tab2.animal\_breed

and tab1.animal\_type=tab2.animal\_type

and tab1.year=tab2.year )

order by Percentage\_of\_animals\_survived desc;

**Report 1 Output file:** 

**Report 2**

**Query:**

select tab1.intake\_type, tab1.outcome\_type,tab1.number\_of\_outcomes,

round((tab3.Total\_outcome\_type/84630)\*100,2) as Percent\_total\_outcomes,

round((tab1.number\_of\_outcomes/tab2.Total\_intake\_type)\*100 ,2)as Percent\_outcomes\_intake\_typ,

round((tab1.number\_of\_outcomes/tab3.Total\_outcome\_type)\*100,2) as Percent\_outcomes\_outcome\_typ

from (select ai.intake\_type, ao.outcome\_type, count(ao.outcome\_type) as number\_of\_outcomes from project2\_shelter\_visit sv , project2\_animal\_intake ai, project2\_animal\_outcome ao , project2\_animal\_type pat , project2\_animal ani

where sv.intake\_id=ai.intake\_id

and sv.outcome\_id=ao.outcome\_id

and sv.animal\_id=ani.animal\_id

and ani.animal\_type\_id=pat.animal\_type\_id

and pat.animal\_type in ('CAT','DOG')

group by ai.intake\_type, ao.outcome\_type order by ai.intake\_type) tab1,

(select ai.intake\_type, count(ai.intake\_type) as Total\_intake\_type from project2\_shelter\_visit sv , project2\_animal\_intake ai, project2\_animal\_outcome ao , project2\_animal\_type pat , project2\_animal ani

where sv.intake\_id=ai.intake\_id

and sv.outcome\_id=ao.outcome\_id

and sv.animal\_id=ani.animal\_id

and ani.animal\_type\_id=pat.animal\_type\_id

and pat.animal\_type in ('CAT','DOG')

group by ai.intake\_type)tab2,

(select ao.outcome\_type, count(ao.outcome\_type) as Total\_outcome\_type from project2\_shelter\_visit sv , project2\_animal\_intake ai, project2\_animal\_outcome ao , project2\_animal\_type pat , project2\_animal ani

where sv.intake\_id=ai.intake\_id

and sv.outcome\_id=ao.outcome\_id

and sv.animal\_id=ani.animal\_id

and ani.animal\_type\_id=pat.animal\_type\_id

and pat.animal\_type in ('CAT','DOG')

group by ao.outcome\_type)tab3 where

tab1.intake\_type=tab2.intake\_type

and tab1.outcome\_type=tab3.outcome\_type;

**Report 2 Output File**: 

## Reports:

Report1 

Report2 