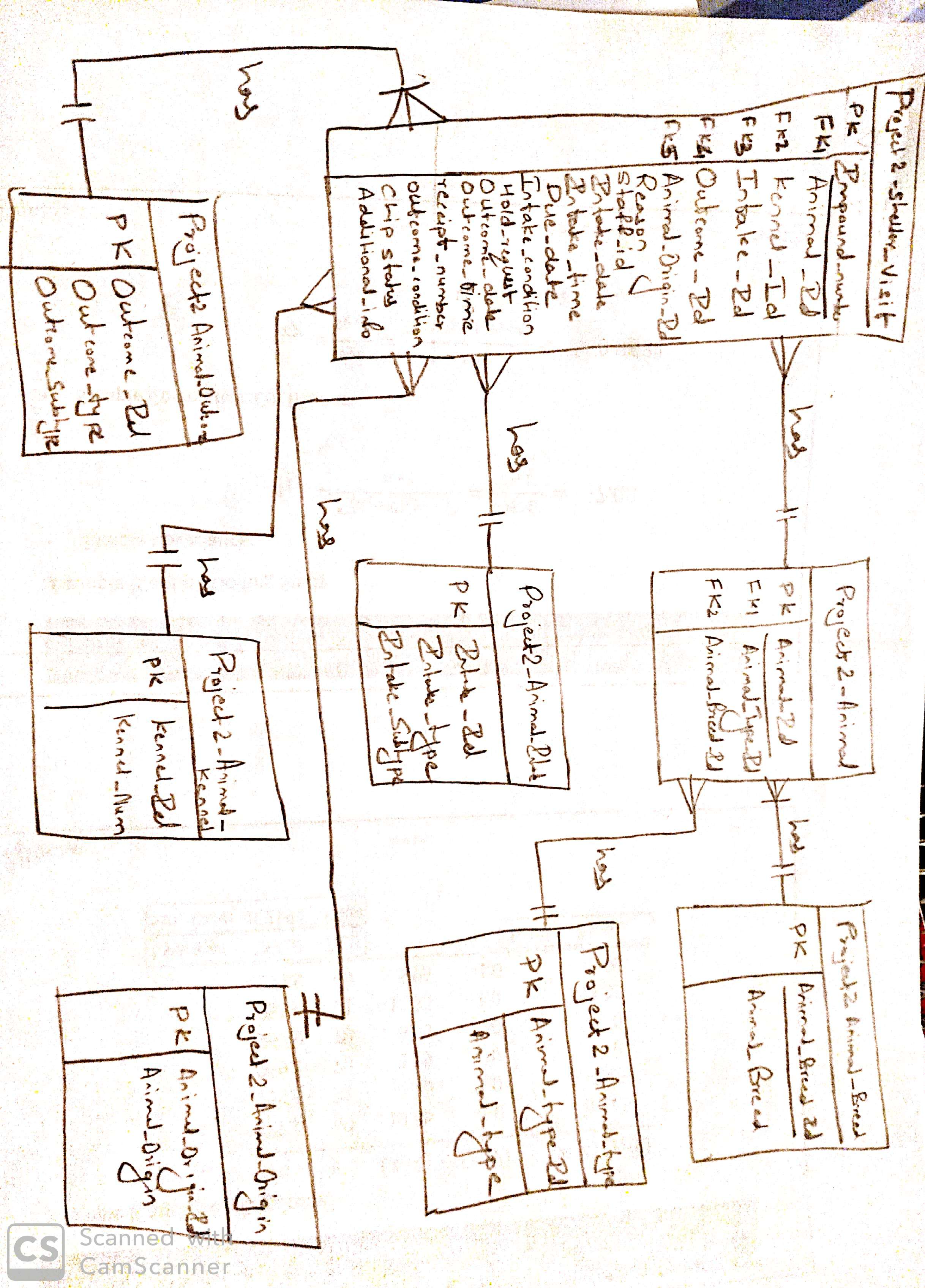
**Project 2 Report**

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**ssj180009**

**1)ERD**



**2)Sql scripts to create and populate 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, t1.\* from(select outcome\_type, outcome\_subtype from project2\_data\_load group by outcome\_type, outcome\_subtype order by outcome\_type, outcome\_subtype)t1);

create table project2\_animal\_intake as (select rownum as intake\_id, t1.\* from(select intake\_type, intake\_subtype from project2\_data\_load group by intake\_type, intake\_subtype order by  intake\_type, intake\_subtype)t1);

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);

alter table project2\_animal\_type add constraint proj2\_animal\_type\_PK Primary key (Animal\_type\_id);

alter table project2\_animal\_source add constraint proj2\_animal\_source\_PK Primary key (animal\_source\_id);

alter table project2\_animal\_breed add constraint proj2\_animal\_brerd\_PK Primary key (Animal\_breed\_id);

alter table project2\_animal\_origin add constraint proj\_animal\_origin\_PK Primary key (animal\_origin\_id);

alter table project2\_animal\_condition add constraint proj\_animal\_condition\_PK Primary key (Condition\_id);

alter table project2\_animal\_outcome add constraint proj2\_animal\_outcome\_PK Primary key (outcome\_id);

alter table project2\_animal\_intake add constraint proj2\_animal\_intake\_PK Primary key (intake\_id);

alter table PROJECT2\_ANIMAL add constraint proj2\_animal\_id\_PK Primary key (animal\_id);

alter table PROJECT2\_ANIMAL add constraint proj2\_animal\_type\_FK foreign key (Animal\_type\_id) references project2\_animal\_type(Animal\_type\_id);

alter table PROJECT2\_ANIMAL add constraint proj2\_animal\_breed\_FK foreign key (Animal\_breed\_id) references project2\_animal\_breed(Animal\_breed\_id);

alter table project2\_animal\_kennel add constraint proj2\_animal\_kennel\_id\_PK Primary key (kennel\_id);

alter table project2\_shelter\_visit add constraint proj2\_shelter\_visit\_PK Primary key (impound\_number);

alter table project2\_shelter\_visit add constraint proj2\_shelter\_animal\_FK foreign key (animal\_id) references project2\_animal(animal\_id);

alter table project2\_shelter\_visit add constraint proj2\_shelter\_kennel\_FK foreign key (kennel\_id) references project2\_animal\_kennel(kennel\_id);

alter table project2\_shelter\_visit add constraint proj2\_shelter\_intake\_FK foreign key (intake\_id) references project2\_animal\_intake(intake\_id);

alter table project2\_shelter\_visit add constraint proj2\_shelter\_outcome\_FK foreign key (outcome\_id) references project2\_animal\_outcome(outcome\_id);

alter table project2\_shelter\_visit add constraint proj2\_shelter\_origin\_FK foreign key (animal\_origin\_id) references project2\_animal\_origin(animal\_origin\_id);

**3)List of Normalized tables and count of records per table:**

Project2\_Animal - 71823

project2\_animal\_type - 6

project2\_animal\_origin - 5

project2\_animal\_outcome - 80

project2\_animal\_breed -324

project2\_animal\_kennel - 1065

project2\_shelter\_visit – 87669

project2\_animal\_intake - 43

**4)Report Queries**

Report1)

select animal\_type, animal\_breed,percentage\_of\_animals\_survived ,total\_animals, year from

(select t1.animal\_type, t1.animal\_breed,round((t1.animals\_survived/t2.total\_animals)\*100,2) as percentage\_of\_animals\_survived, t1.animals\_survived, t2.total\_animals, t1.year from

(select project2\_animal\_type.animal\_type, project2\_animal\_breed.animal\_breed ,to\_char(project2\_shelter\_visit.intake\_date,'yyyy') as year, count(project2\_animal\_breed.animal\_breed) as animals\_survived

from project2\_animal\_type ,project2\_animal\_breed ,project2\_shelter\_visit , project2\_animal ,project2\_animal\_outcome

where project2\_shelter\_visit.outcome\_id=project2\_animal\_outcome.outcome\_id

and project2\_shelter\_visit.outcome\_id is not null

and project2\_shelter\_visit.animal\_id=project2\_animal.animal\_id

and project2\_animal\_breed.animal\_breed\_id=project2\_animal.animal\_breed\_id

and project2\_animal.animal\_type\_id=project2\_animal\_type.animal\_type\_id

and project2\_animal\_outcome.outcome\_type not in ('died','dead on arrival','euthanized')

and project2\_animal\_type.animal\_type in ('cat','dog')

and to\_char(project2\_shelter\_visit.intake\_date,'yyyy')>='2016'

group by project2\_animal\_type.animal\_type, project2\_animal\_breed.animal\_breed,to\_char(project2\_shelter\_visit.intake\_date,'yyyy') having count(project2\_animal\_breed.animal\_breed)>200 ) t1

inner join

(select project2\_animal\_type.animal\_type, project2\_animal\_breed.animal\_breed ,to\_char(project2\_shelter\_visit.intake\_date,'yyyy') as year, count(project2\_animal\_breed.animal\_breed) as total\_animals

from project2\_animal\_type ,project2\_animal\_breed ,project2\_shelter\_visit , project2\_animal ,project2\_animal\_outcome

where project2\_shelter\_visit.outcome\_id=project2\_animal\_outcome.outcome\_id

and project2\_shelter\_visit.outcome\_id is not null

and project2\_shelter\_visit.animal\_id=project2\_animal.animal\_id

and project2\_animal\_breed.animal\_breed\_id=project2\_animal.animal\_breed\_id

and project2\_animal.animal\_type\_id=project2\_animal\_type.animal\_type\_id

and project2\_animal\_type.animal\_type in ('cat','dog')

and to\_char(project2\_shelter\_visit.intake\_date,'yyyy')>='2016'

group by project2\_animal\_type.animal\_type, project2\_animal\_breed.animal\_breed,to\_char(project2\_shelter\_visit.intake\_date,'yyyy') having count(project2\_animal\_breed.animal\_breed)>200 )t2

on t1.animal\_breed=t2.animal\_breed

and t1.animal\_type=t2.animal\_type

and t1.year=t2.year )

order by percentage\_of\_animals\_survived desc ;

Report2)

select t1.intake\_type, t1.outcome\_type,t1.number\_of\_outcomes, round((t1.number\_of\_outcomes/t2.Total\_intake\_type)\*100 ,2)as Percent\_out\_intake\_typ,round((t3.Total\_outcome\_type/84630)\*100,2) as Percent\_total\_outcomes,

round((t1.number\_of\_outcomes/t3.Total\_outcome\_type)\*100,2) as Percent\_out\_outcome\_typ

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

where project2\_shelter\_visit.intake\_id=project2\_animal\_intake.intake\_id

and project2\_shelter\_visit.outcome\_id=project2\_animal\_outcome.outcome\_id

and project2\_shelter\_visit.animal\_id=project2\_animal.animal\_id

and project2\_animal.animal\_type\_id=project2\_animal\_type.animal\_type\_id

and project2\_animal\_type.animal\_type in ('CAT','DOG')

group by project2\_animal\_intake.intake\_type, project2\_animal\_outcome.outcome\_type order by project2\_animal\_intake.intake\_type) t1,

(select project2\_animal\_intake.intake\_type, count(project2\_animal\_intake.intake\_type) as Total\_intake\_type from project2\_shelter\_visit , project2\_animal\_intake , project2\_animal\_outcome , project2\_animal\_type , project2\_animal

where project2\_shelter\_visit.intake\_id=project2\_animal\_intake.intake\_id

and project2\_shelter\_visit.outcome\_id=project2\_animal\_outcome.outcome\_id

and project2\_shelter\_visit.animal\_id=project2\_animal.animal\_id

and project2\_animal.animal\_type\_id=project2\_animal\_type.animal\_type\_id

and project2\_animal\_type.animal\_type in ('CAT','DOG')

group by project2\_animal\_intake.intake\_type)t2,

(select project2\_animal\_outcome.outcome\_type, count(project2\_animal\_outcome.outcome\_type) as Total\_outcome\_type from project2\_shelter\_visit , project2\_animal\_intake , project2\_animal\_outcome , project2\_animal\_type , project2\_animal

where project2\_shelter\_visit.intake\_id=project2\_animal\_intake.intake\_id

and project2\_shelter\_visit.outcome\_id=project2\_animal\_outcome.outcome\_id

and project2\_shelter\_visit.animal\_id=project2\_animal.animal\_id

and project2\_animal.animal\_type\_id=project2\_animal\_type.animal\_type\_id

and project2\_animal\_type.animal\_type in ('CAT','DOG')

group by project2\_animal\_outcome.outcome\_type)t3 where

t1.intake\_type=t2.intake\_type

and t1.outcome\_type=t3.outcome\_type;

**5) Report**

1)Report 1

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2)Report 2

