

Project 2

Last 4 digit : 4767

CSCI 331 33

4/25/2018



create table owners(

owner\_ID number not null,

owner\_first varchar(25),

owner\_last varchar(25),

owner\_street varchar(30),

owner\_city varchar(50),

owner\_state varchar(2),

owner\_zip varchar(10),

primary key (owner\_id)

);

Table for dogs are imported.

create table owner\_numbers(

number\_id number not null,

owner\_id number,

owner\_number varchar(12),

primary key (number\_id),

foreign key (owner\_id) references owners(owner\_id)

);

create table dog\_photos(

photos\_id number not null,

dog\_id number not null,

photos varchar(70) not null,

primary key(photos\_id ),

foreign key (dog\_id) references dogs(dog\_id)

);

create table registers(

register\_number number not null,

dog\_id number not null,

owner\_id number not null,

register\_date date not null,

own\_till date not null,

primary key(register\_number),

foreign key(dog\_id) references dogs (dog\_id),

foreign key(owner\_id) references owners (owner\_id)

);

create table tickets(

ticket\_number number not null,

owner\_id number not null,

dog\_id number not null,

ticket\_date date not null,

status1 varchar(1) not null,

primary key(ticket\_number ),

foreign key(owner\_id) references owners (owner\_id),

foreign key(dog\_id) references dogs (dog\_id)

);

create table violations(

violation\_number number not null,

violation\_description varchar(100) not null,

fine varchar(10) not null,

primary key(violation\_number)

);

create table ticket\_violations(

ticket\_violation\_id number not null,

ticket\_number number not null,

violation\_number number not null,

primary key(ticket\_violation\_id),

foreign key(ticket\_number) references tickets(ticket\_number),

foreign key(violation\_number) references violations(violation\_number)

);

1. Identify dogs without violations in the last year. Display the owner name, dog name, breed and email. Use a nested select to answer this question.

select owner\_First, owner\_last, owner\_email, dog\_Name, breed

from dogs, owners

where (Dog\_ID ,owner\_id) in (

select registers.dog\_id, registers.owner\_id

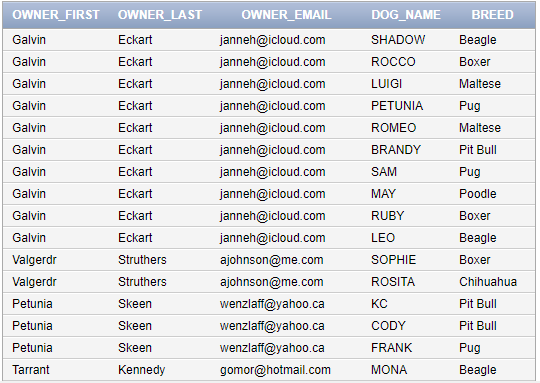
from registers

where (registers.dog\_id, registers.owner\_id) not in (

select tickets.owner\_id, tickets.dog\_id

from tickets

where tickets.ticket\_date >'1/1/17' ));



2. Identify zip codes without registered pit bulls now. Display the zip code.

Remove duplicate zip codes. Use a nested select to answer this question.

|  |  |
| --- | --- |
| select owner\_zip  from owners  where owner\_id not in (  select registers.owner\_id  from registers  where registers.dog\_id in (  select dogs.dog\_id  from dogs  where breed = 'Pit Bull'  ))  group by owner\_zip; |  |

3. Identify dogs without owners now. Display the dog name, gender, breed and age.Use a nested select to answer this question.

|  |  |
| --- | --- |
| select dog\_name, gender, breed, TRUNC(months\_between(sysdate,birthmonth)/12) year  from dogs  where dogs.dog\_id not in (  select registers.dog\_id  from registers  where registers.own\_till is null  ); |  |

4. Identify current dog owners with a residence near Elmhurst. Display the owner name, dog name and breed

|  |  |
| --- | --- |
| select owner\_first FirstName, owner\_last LastName, dog\_name DogName, breed  from dogs, owners  where (dogs.dog\_id,owners.owner\_id) in(  select registers.dog\_id,registers.owner\_id  from registers  where registers.own\_till is null  ); |  |

5. Identify pictures of female poodles less than five years old. Display the dog name, age and all photos.

|  |  |
| --- | --- |
| select dogs.dog\_name, TRUNC(months\_between(sysdate,birthmonth)/12) year, dog\_photos.photos  from dogs, dog\_photos  where dogs.breed = 'Poodle' and  dogs.dog\_id=dog\_photos.dog\_id  ; |  |

6. Identify dogs owned by Sally Smith with violations in the last year. Display the owner name, dog name, violation, date of violation and fine.

select owner\_first firstname, owner\_last lastname, dog\_name dogname, ticket\_date ticketdate, violation\_description violations, to\_char(fines, '$9,999.99') fines

from dogs, owners, tickets, violations, ticket\_violations

where owners.owner\_first='Sally' and

owners.owner\_last='Smith'and

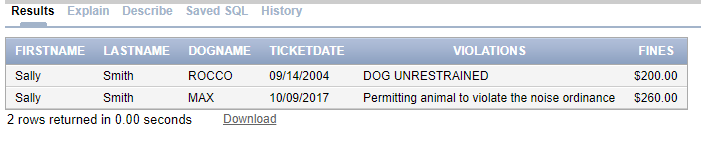
tickets.owner\_id = owners.owner\_id and

tickets.dog\_id = dogs.dog\_id and

tickets.ticket\_number = ticket\_violations.ticket\_number and

ticket\_violations.violation\_Number = violations.violation\_number

;



7. Identify the number of dogs by gender. Display two columns and one row for

each gender. The two output columns are gender and number of dogs with that

gender. Use a function to answer this question.

|  |  |
| --- | --- |
| select dogs.gender , count(\*) Count  from dogs  group by gender; |  |

8. Identify zip codes with the most pit bulls. Display two columns and one row for each zip code. The two output columns are zip code and number of dogs in thatzip code. Display the zip code with the most pit bulls first. Use a function to answer this question.

|  |  |
| --- | --- |
| select owners.owner\_zip ZipCode, count(owners.owner\_zip) Number\_Of\_Pitbull  from dogs, owners  where dogs.breed = 'Pit Bull' and  (dogs.dog\_id, owners.owner\_id) in (  select registers.dog\_id, registers.owner\_id  from registers  where own\_till is null  )  group by Owners.owner\_zip  order by Owners.owner\_zip desc  ; |  |

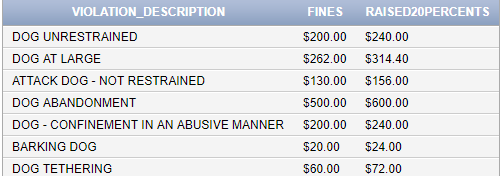
9. Identify the number of total fines by owner in the last two years. Display threecolumns and one row for each owner. The three columns are owner name, number of violations and total dollar amount of fines. Display owners with the most fines first. Use a function to answer this question.

|  |  |
| --- | --- |
| select (owners.owner\_first || ' ' || owners.owner\_last) as Name, count(ticket\_violations.ticket\_number) numberofviolations, to\_char(sum(violations.fines), '$9,999.99') fines  from owners, violations, ticket\_violations, tickets  where owners.owner\_id = tickets.owner\_id and  tickets.ticket\_number in  ticket\_violations.ticket\_number and  ticket\_violations.violation\_number = violations.violation\_number  group by owners.owner\_first, owners.owner\_last, ticket\_violations.ticket\_number  ; |  |



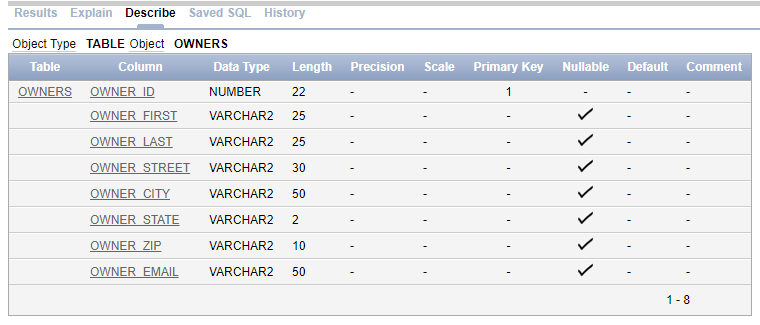
10. Increase all fines by 20%. Identify the SQL to perform this operation and the fine before and after this operation.

|  |
| --- |
| select violations.violation\_description, to\_char(violations.fines, '$9,999.99') fines,  to\_char(violations.fines\*1.2, '$9,999.99') raised20percents  from violations  ; |

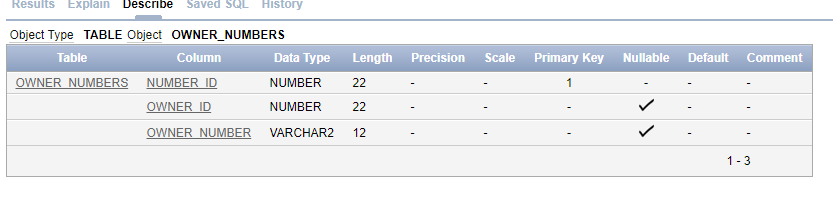


11.

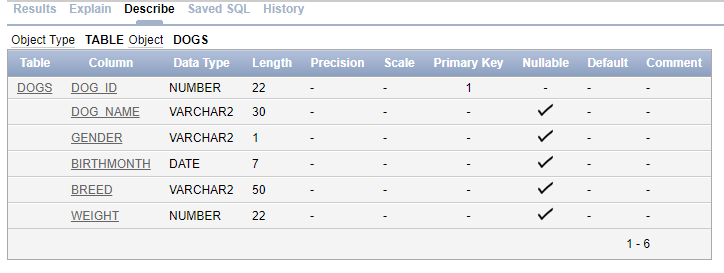
Owners



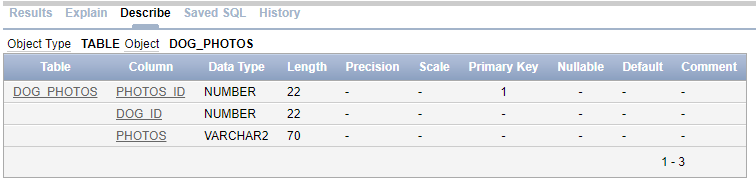
Owner\_numbers



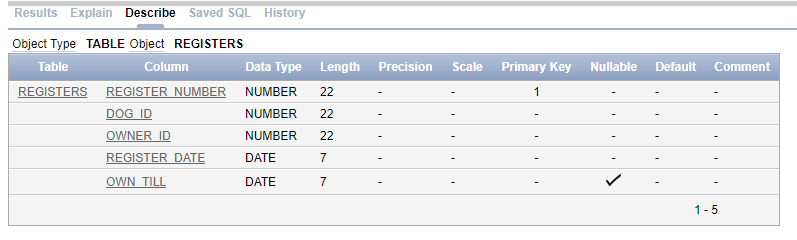
Dogs



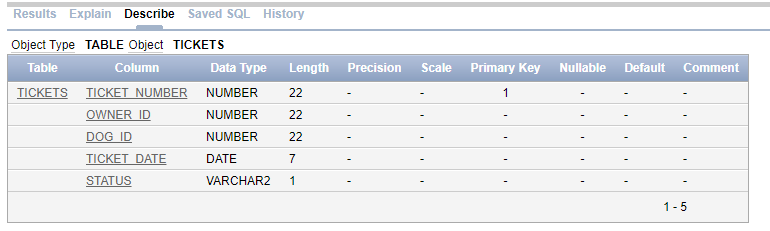
Dog\_Photos



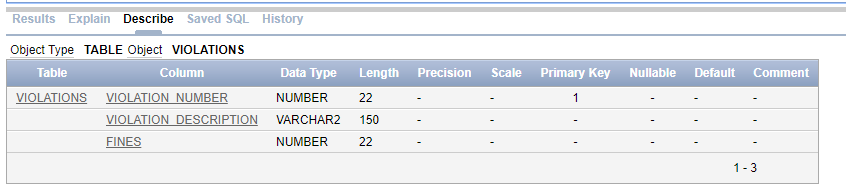
Registers



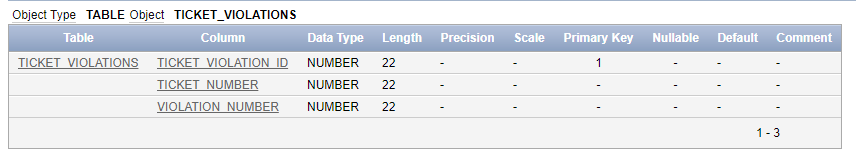
Tickets



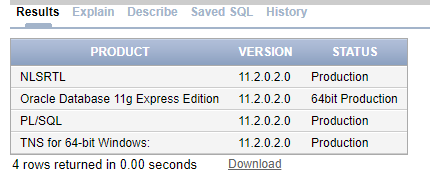
Violations



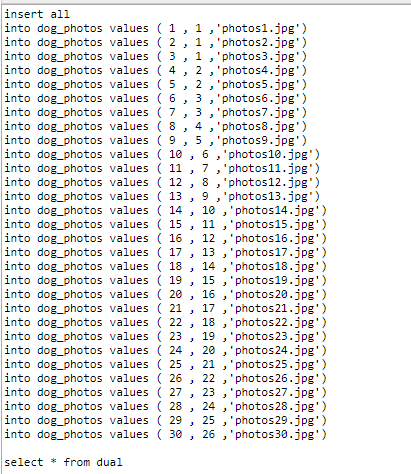
ticket\_violations



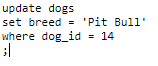
12.



Multi Insert into Dog\_Photos



Update dogs

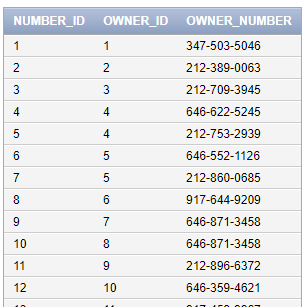
 

\*Can’t locate most of input history due oricle having 200 history limit. This is most of my data, some are cut off due because it is too large. Most data were input by using (insert all … select \* form dual).

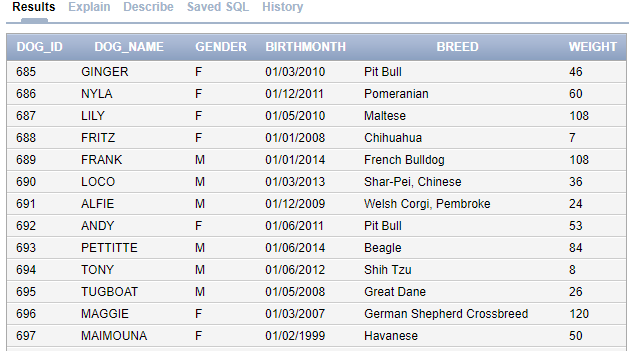
Owners



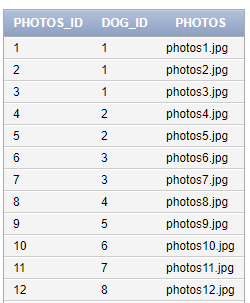
Owner\_numbers



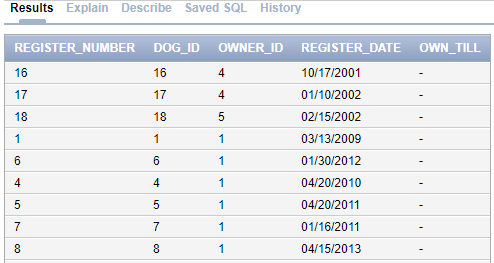
Dogs



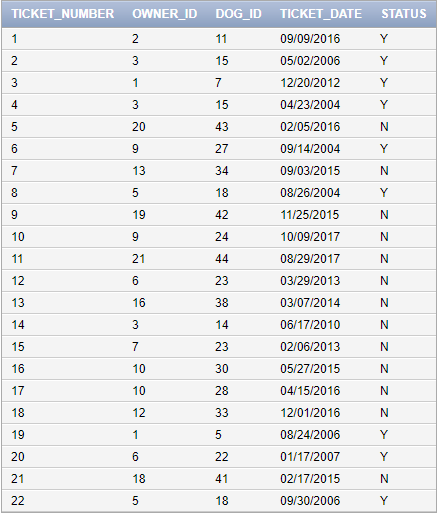
Dog\_Photos



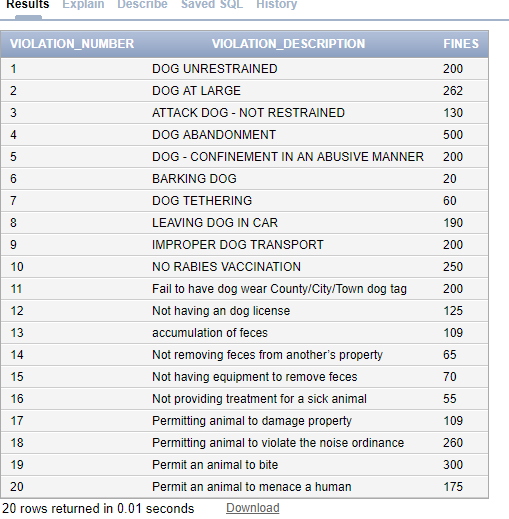
Registers



Tickets



Violations



ticket\_violations

