Database Management Systems

(COP 5725)

Fall 2021

Instructor: Dr. Markus Schneider

TA: Kyuseo Park

Homework 1

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Pledge (Must be signed according to UF Honor Code)

On my honor, I have neither given nor received unauthorized aid in doing this assignment.

Ohrxuan	Shi	
Signature		

For scoring use only:

	Maximum	Received
Exercise 1	60	
Exercise 2	20	
Exercise 3	20	
Total	100	

1 Exercise 1

(1) SQL queries:

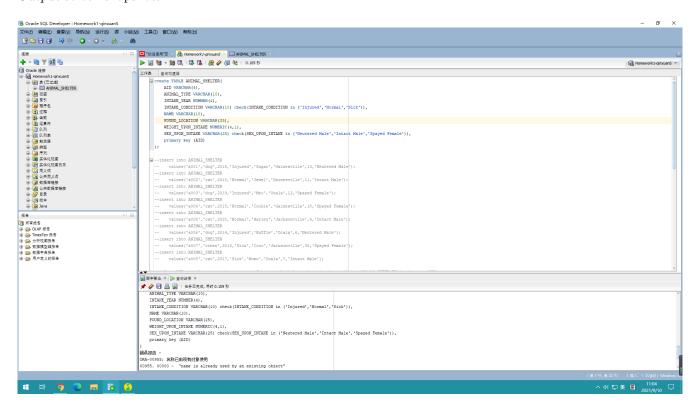


Figure 1: create table

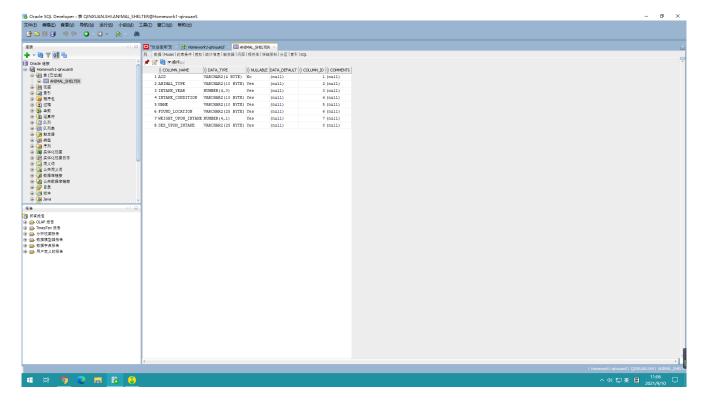


Figure 2: table view

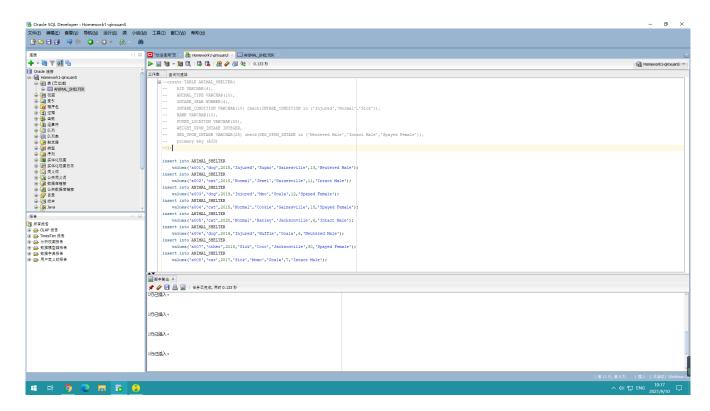


Figure 3: insert data

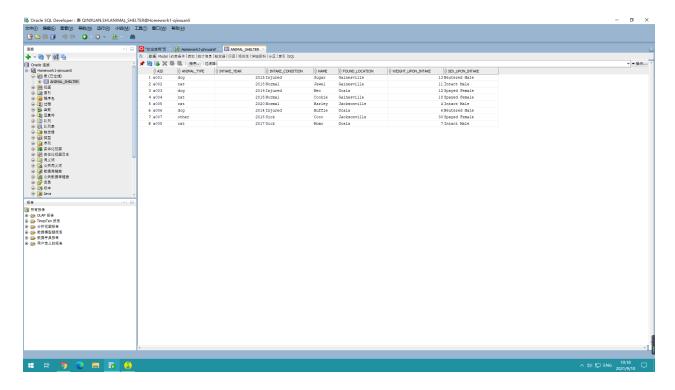


Figure 4: data view

(2) SQL queries:

select AID, animal_type, intake_year, name from animal_shelter
 where intake_condition='Sick' ORDER BY intake_year ASC;

Output screen snapshots:

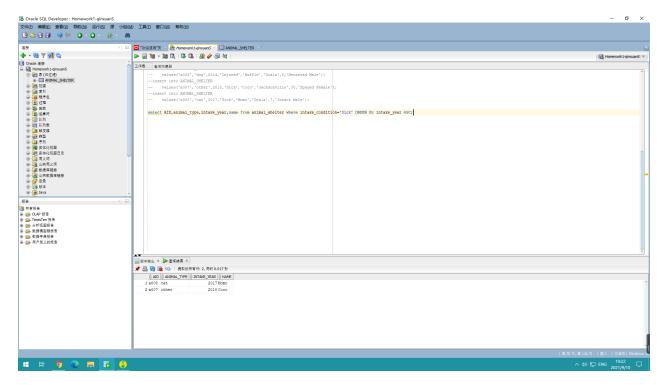


Figure 5: 1.2

(3) SQL queries:

select count(*) from animal_shelter

where an imal_type='dog' and found_location='Ocala' and intake_year >=2015; Output screen snapshots:

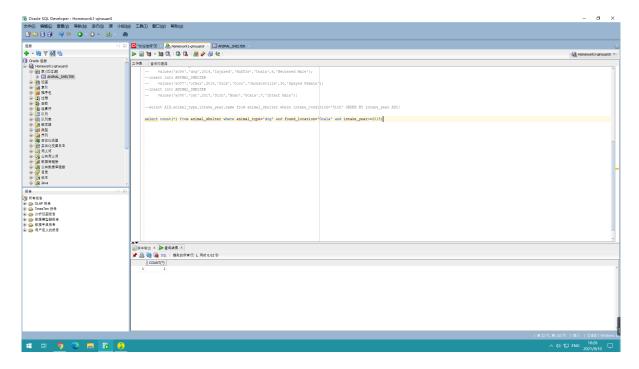


Figure 6: 1.3

(4) SQL queries:

select name,animal_type from animal_shelter
 where intake_condition='Injured' and found_location='Gainesville'
 and intake_year >=2014 and intake_year <=2016;</pre>

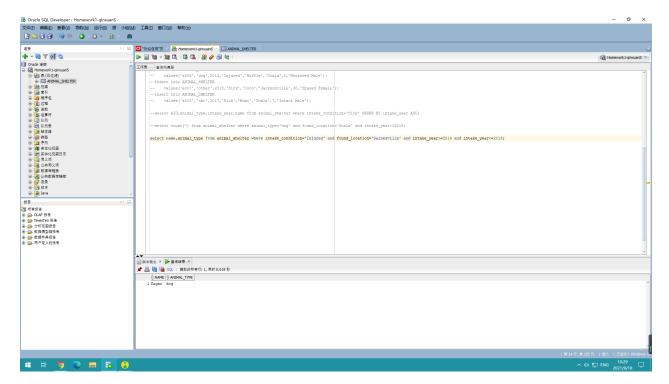


Figure 7: 1.4

(5) SQL queries:

select name,animal_type,intake_condition from animal_shelter
where AID not in (select AID from animal_shelter where intake_condition='Normal')
and (intake_year=2014 or intake_year=2017) and sex_upon_intake='Intact Male';

Output screen snapshots:

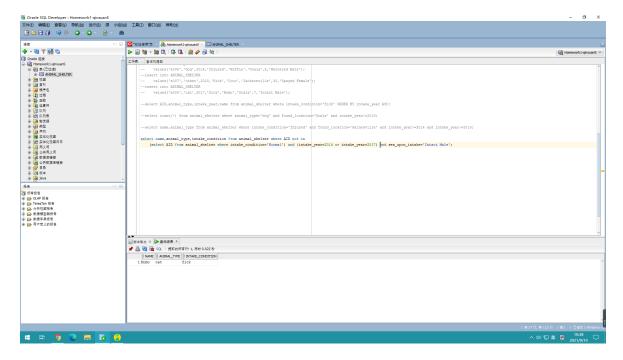


Figure 8: 1.5

(6) SQL queries:

select name, animal_type, intake_year from animal_shelter where (name like '%le%' or name like '%ar%') and (intake_year=2014 or intake_year=2020); Output screen snapshots:

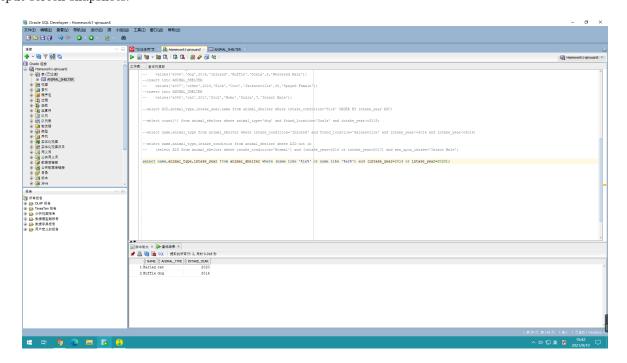


Figure 9: 1.6

(7) SQL queries:

 $select\ name, animal_type\ , intake_year\ , weight_upon_intake\ from\ animal_shelter$

ORDER BY animal_type ASC, intake_year DESC, weight_upon_intake DESC;

Output screen snapshots:

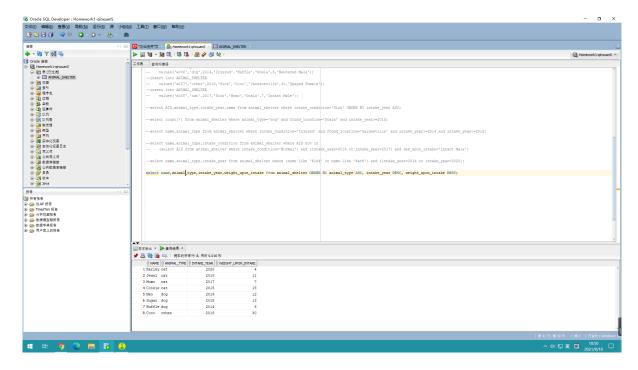


Figure 10: 1.7

(8) SQL queries:

select AVG(weight_upon_intake) as Avg_weight from animal_shelter;

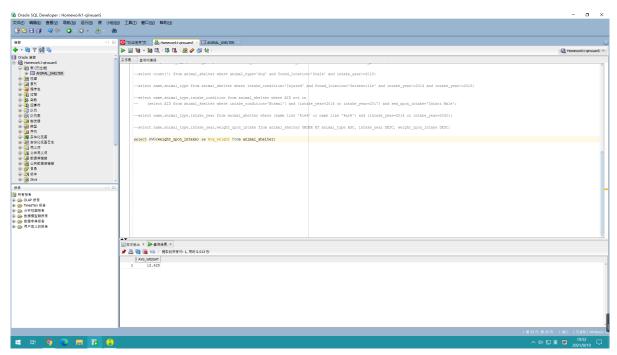


Figure 11: 1.8

(9) SQL queries:

UPDATE animal_shelter SET weight_upon_intake=weight_upon_intake *1.2
 where weight_upon_intake >15;
select * from animal_shelter;

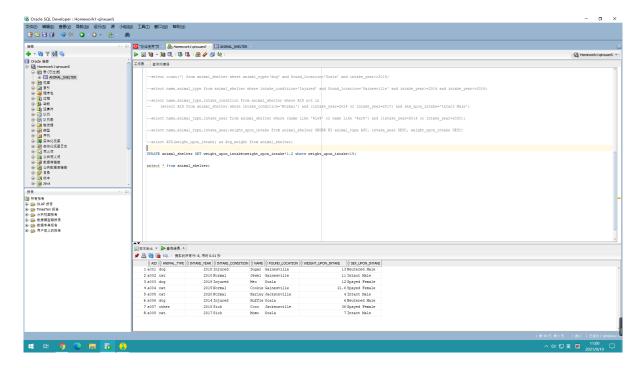


Figure 12: 1.9

2 Exercise 2

Entity-Relationship diagram for department management system.

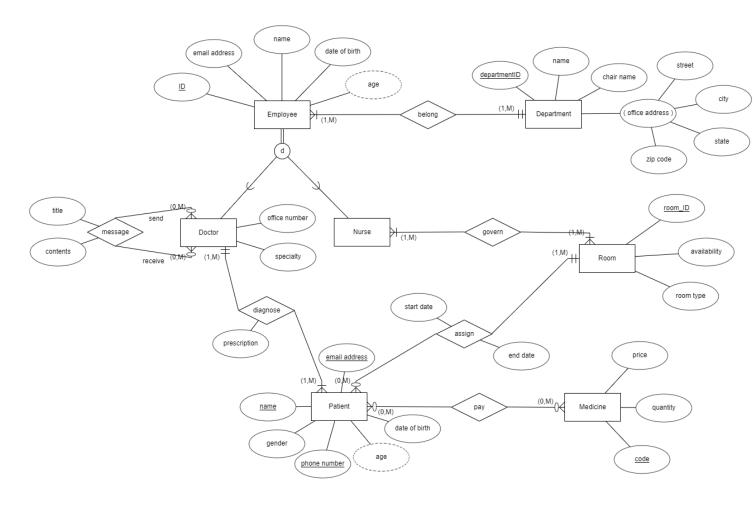


Figure 13: Exercise2

3 Exercise 3

Entity-Relationship diagram for online course management system.

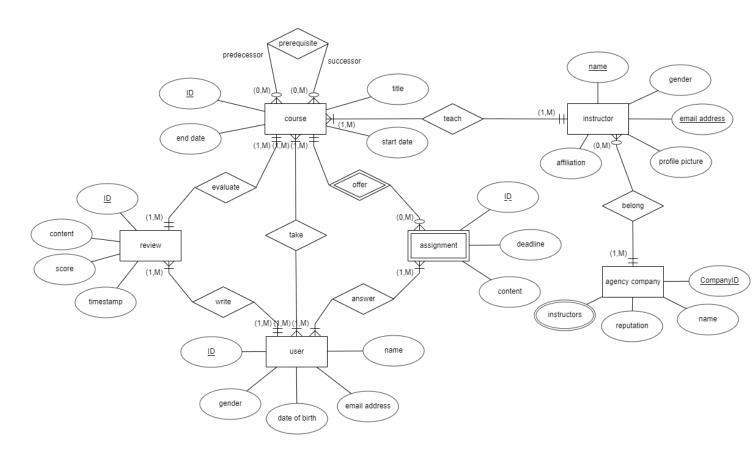


Figure 14: Exercise3