Kod och Resultat

Part 2:

A SELECT using an inequality

```
MariaDB [clinic]> SELECT customer.customerid, petid, petname, fname, lname
    -> FROM pet
    -> JOIN customer on pet.customerid = customer.customerid
    -> JOIN person ON customer.personid = person.personid
    -> AND (customer.customerid!='AC001');
  customerid | petid | petname
                                               lname
                                   fname
  AD001
               -01
                       Patty
                                    Jonathan
                                               Adams
  AD002
               -01
                       Dee Dee
                                    William
                                               Adams
  AD003
               -01
                       Fi Fi
                                    Adam
                                               Johnson
  AD004
               -01
                       Flaxe
                                    Karl
                                               Backan
  AD005
               -01
                       Varge
                                    Karl
                                               Petterson
  AD001
                       Rising Sun
                                    Jonathan
               -02
                                               Adams
  AK001
               -03
                                    Kingdom
                                               Animal
                       Jerry
  AK001
              -07
                      Luigi
                                   Kingdom
                                               Animal
8 rows in set (0.001 sec)
MariaDB [clinic]>
```

Tar fram alla pets som inte tillhör AC001.

A SELECT using LIKE on a text field

-	-		erson WHERE zip		•
PersonID	Lname	Fname	City	States	zip
13 14 15	Animal	Kingdom Adam Karl	Borderville New York Sundsvall Sundsvall	ID NY VN VN	834835646 84657 85233 85233
rows in se	et (0.001 sec		·		+

Tar fram alla personen vars zip börjar på 8.

A SELECT on a DATE column

Tar fram dob på alla pets.

A query using GROUP BY

Summerar alla medications som användes på appointmentid = 01 (fido).

A query using HAVING

Summerar alla medications som användes på appointmentid = 01 (fido).

A query using ORDER BY

```
MariaDB [clinic]> SELECT pet.petname, pet.customerid, pet.breedname, animaltype.animalname
   -> FROM pet
   -> JOIN breed ON pet.breedname = breed.breedname
   -> JOIN animaltype ON breed.animalname = animaltype.animalname
   -> AND (pet.animalname='DOG') ORDER BY pet.petname;
 petname | customerid | breedname
                                      animalname
                     Mixed
                                      DOG
 Dee Dee | AD002
 Fido
         AC001
                       German Shepherd | DOG
         AK001
                                      DOG
 Luigi
                       Beagle
 rows in set (0.003 sec)
```

Tar fram alla djur som tillhör rasen DOG och sorterar via namn.

A query using a subquery

```
MariaDB [clinic]> SELECT personid, fname, lname
    -> FROM person
    -> WHERE personid IN (SELECT personid FROM customer WHERE phonenr LIKE '(206)%')
    -> OR personid IN (SELECT personid FROM employee WHERE homephone LIKE '(206)%')
    -> ORDER BY personid;
 personid | fname
                       lname
            Todd
                         Becker
            Rosie
                         Bowie
                         Carrington
            Maram
            Mary
                         Plotter
        9
            Margaret
                         Walters
            Creatures
        10
                         A11
        11 l
            Jonathan
                         Adams
  rows in set (0.001 sec)
```

Tar fram alla personid, fname och lname på alla personer som antingen är customer och har phonenr som börjar på 206 eller employees som har homephone som börjar på 206.

A query using a correlated subquery

```
MariaDB [clinic]> SELECT * FROM person
    -> WHERE NOT EXISTS (SELECT * FROM employee WHERE employee.personid = person.personid);
 PersonID | Lname
                       Fname
                                   | City
                                                    | States | zip
       10
            All
                         Creatures
                                     Tall Pines
                                                     WA
                                                                  98746
                                                              984101012
            Adams
                         Jonathan
                                     Mountain View
                                                     WA
       12
            Adams
                                     LAkeville
                                                     OR
                                                              974011011
                         William
                                     Borderville
                                                     ID
                                                              834835646
             Animal
                         Kingdom
                                     New York
       14
             Johnson
                         Adam
                                                     NY
                                                                  84657
                         Karl
       15
             Backan
                                     Sundsvall
                                                                  85233
                                                     VN
            Petterson
                         Karl
                                     Sundsvall
       16
                                                     VN
                                                                  85233
 rows in set (0.001 sec)
```

Tar fram allt från personer som inte är en employee.

Filip Stenegren Fist2000 Mittuniversitetet 02-12-

A query involving COUNT(*)

2021

Räknar alla employees som har MS. som education.

A query involving another aggregate function

Summerar alla medications som användes på appointmentid = 01 (fido).

A selective DELETE

```
MariaDB [clinic]> DELETE FROM animaltype
-> WHERE animalname ='DUCK';
Query OK, 1 row affected (0.007 sec)
```

Tar bort djurtypen DUCK. Funkar endast eftersom det inte finns något djur associerat med DUCK. Om jag försöker ta bort vilken annan typ får man error. Då skulle databasen referera till något som inte existerar.

```
MariaDB [clinic]> DELETE FROM person
-> WHERE personid = 11;
ERROR 1451 (23000): Cannot delete or update a parent row: a foreign key constraint fails
(`clinic`.`customer`, CONSTRAINT `customer_ibfk_1` FOREIGN KEY (`PersonID`) REFERENCES
`person` (`PersonID`))
MariaDB [clinic]>
```

A selective UPDATE

riaDB [clinic]> select * from person;						
PersonID	Lname	Fname	City	States	 zip	
1	Becker	Todd	Tacoma	WA	98401	
2	Bowie	Rosie	Seattle	WA	98105	
3	Carrington	Maram	Kirkland	WA	98033	
4	Chiu	Lin	Tacoma	WA	98402	
5	Dennis	Anne	Bellingham	WA	98047	
6	Peters	Peter	Bellingham	WA	98047	
7	Plotter	Mary	Seattle	WA	98122	
8	Wally	Robert	Seattle	WA	98125	
9	Walters	Margaret	Redmond	WA	98052	
10	All	Creatures	Tall Pines	WA	98746	
11	Adams	Jonathan	Mountain View	WA	984101012	
12	Adams	William	LAkeville	OR	974011011	
13	Animal	Kingdom	Borderville	ID	834835646	
14	Johnson	Adam	New York	NY	84657	
15	Backan	Karl	Sundsvall	VN	85233	
16	Petterson	Karl	Sundsvall	VN	85233	
riaDB [cl -> SET -> WHER ery OK, 1 us matched	inic]> UPDATE lname = 'Last E personid = : row affected d: 1 Changed	person name', fname 15; (0.002 sec)	= 'Firstname' s: 0			
-> SET : -> WHERM ery OK, 1 ws matched riaDB [cl: riaDB [cl:	inic]> UPDATE lname = 'Lasto E personid = ' row affected d: 1 Changed inic]> inic]> select	person name', fname 15; (0.002 sec) : 1 Warning: * from perso	s: 0 on;	+	t	
riaDB [cl: -> SET : -> WHER ery OK, 1 ws matched	inic]> UPDATE lname = 'Lasto E personid = ' row affected d: 1 Changed inic]> inic]> select	person name', fname 15; (0.002 sec) : 1 Warning	s: 0	+ States +	+ zip +	
riaDB [cl: -> SET : -> WHERD ery OK, 1 ws matched riaDB [cl: riaDB [cl: PersonID	inic]> UPDATE lname = 'Last E personid = ' row affected d: 1 Changed inic]> inic]> select +	person name', fname 15; (0.002 sec) : 1 Warning: * from person Fname Todd	s: 0 on; + City +	WA	+ 98401	
riaDB [cl: -> SET: -> WHERI ery OK, 1 ws matched riaDB [cl: riaDB [cl: PersonID	inic]> UPDATE lname = 'Last E personid = ' row affected d: 1 Changed inic]> inic]> select +	person name', fname 15; (0.002 sec) : 1 Warning: * from person + Fname + Todd Rosie	on; 	WA WA	+ 98401 98105	
riaDB [cl: -> SET: -> WHER rry OK, 1 vs matched riaDB [cl: riaDB [cl: riaDB [cl: riaDB [cl: riaDB [cl: riaDB [cl: riaDB [cl: riaDB [cl:	inic]> UPDATE lname = 'Last E personid = ' row affected d: 1 Changed inic]> inic]> select +	person name', fname 15; (0.002 sec) : 1 Warning: * from person + Fname + Todd Rosie	on; + City + Tacoma Seattle Kirkland		98401 98105 98033	
riaDB [cl: -> SET: -> WHER ery OK, 1 ws matched riaDB [cl: riaDB [cl: riaDB [cl: riaDB [cl: riaDB [cl: riaDB [cl: riaDB [cl: riaDB [cl: riaDB [cl:	inic]> UPDATE lname = 'Lasto E personid = ' row affected d: 1 Changed inic]> inic]> select +	person name', fname 15; (0.002 sec) : 1 Warning: * from person + Fname + Todd Rosie Maram Lin	on; +	WA WA WA WA	98401 98105 98033 98402	
riaDB [cl: -> SET : -> WHERI ery OK, 1 vs matched riaDB [cl: riaDB [cl:	inic]> UPDATE lname = 'Last E personid = ' row affected d: 1 Changed inic]> inic]> select +	person name', fname 15; (0.002 sec) : 1 Warning: * from person Fname Todd Rosie Maram Lin Anne	on; 	WA WA WA WA WA	98401 98105 98033 98402 98047	
riaDB [cl: -> SET : -> WHERI ery OK, 1 vs matched riaDB [cl:	inic]> UPDATE lname = 'Laste E personid = ' row affected d: 1 Changed inic]> inic]> select +	person name', fname 15; (0.002 sec) : 1 Warning: * from person Fname Fname Todd Rosie Maram Lin Anne Peter	on; +	WA WA WA WA WA	98401 98105 98033 98402 98047 98047	
riaDB [cl: -> SET : -> WHERI rry OK, 1 vs matcher riaDB [cl: riaDB	inic]> UPDATE lname = 'Laste E personid = ' row affected d: 1 Changed inic]> inic]> select +	person name', fname 15; (0.002 sec) : 1 Warning: * from person Fname Todd Rosie Maram Lin Anne Peter Mary	on; 	WA WA WA WA WA WA	98401 98105 98033 98402 98047 98047 98122	
riaDB [cl: -> SET: -> WHERI ery OK, 1 vs matched riaDB [cl:	inic]> UPDATE lname = 'Laste E personid = ' row affected d: 1 Changed inic]> inic]> select +	person name', fname 15; (0.002 sec) : 1 Warning: * from person Fname Fname Todd Rosie Maram Lin Anne Peter Mary Robert	on; +	WA WA WA WA WA WA WA	98401 98105 98033 98402 98047 98047 98122 98125	
riaDB [cl: -> SET: -> WHERE ry OK, 1 // s matched riaDB [cl:	inic]> UPDATE lname = 'Laste E personid = ' row affected d: 1 Changed inic]> inic]> select +	person name', fname 15; (0.002 sec) : 1 Warning: * from person Fname Todd Rosie Maram Lin Anne Peter Mary Robert Margaret	on;	WA WA WA WA WA WA WA WA	98401 98105 98033 98402 98047 98047 98122 98125 98052	
riaDB [cl: -> SET: -> WHERE ry OK, 1 us matched riaDB [cl:	inic]> UPDATE lname = 'Laste E personid = ' row affected d: 1 Changed inic]> inic]> select +	person name', fname 15; (0.002 sec) : 1 Warning: * from perso + Fname + Todd Rosie Maram Lin Anne Peter Mary Robert Margaret Creatures	on;	WA WA WA WA WA WA WA WA	98401 98105 98033 98402 98047 98047 98122 98125 98125 98052	
riaDB [cl: -> SET -> WHERE ry OK, 1 vs matched riaDB [cl: riaDB [c	inic]> UPDATE lname = 'Laste E personid = ' row affected d: 1 Changed inic]> inic]> select +	person name', fname 15; (0.002 sec) : 1 Warning: * from person + Fname + Todd Rosie Maram Lin Anne Peter Mary Robert Margaret Creatures Jonathan	on;	WA WA WA WA WA WA WA WA WA	98401 98105 98033 98402 98047 98047 98122 98125 98052 98746 984101012	
riaDB [cl: -> SET: -> WHERI ery OK, 1 ws matched riaDB [cl: riaDB [cl: 	inic]> UPDATE lname = 'Laste E personid = ' row affected d: 1 Changed inic]> inic]> select +	person name', fname 15; (0.002 sec) : 1 Warning: * from person Fname Fname Lin Anne Peter Mary Robert Margaret Creatures Jonathan William	on;	WA WA WA WA WA WA WA WA	98401 98105 98033 98402 98047 98047 98122 98125 98125 98746 984101012 974011011	
riaDB [cl: -> SET : -> WHERI rry OK, 1 //s matched riaDB [cl: 	inic]> UPDATE lname = 'Laste E personid = ' row affected d: 1 Changed inic]> inic]> select +	person name', fname 15; (0.002 sec) : 1 Warning: * from person Fname Fname Todd Rosie Maram Lin Anne Peter Mary Robert Margaret Creatures Jonathan William Kingdom	on;	WA WA WA WA WA WA WA WA	98401 98105 98033 98402 98047 98047 98122 98125 9852 98746 984101012 974011011 834835646	
riaDB [cl: -> SET: -> WHERE ry OK, 1 vs matched riaDB [cl: riaDB [cl: riaD	inic]> UPDATE Iname = 'Laste E personid = ' row affected d: 1 Changed inic]> inic]> select +	person name', fname 15; (0.002 sec) : 1 Warning: * from person Fname Fname Todd Rosie Maram Lin Anne Peter Mary Robert Margaret Creatures Jonathan William Kingdom Adam	on;	WA WA WA WA WA WA WA WA WA WA WA WA	98401 98105 98033 98402 98047 98047 98122 98125 9852 98746 984101012 974011011 834835646 84657	
riaDB [cl: -> SET: -> WHERI ery OK, 1 ws matcher riaDB [cl: riaDB [cl: 2 3 4 5 6 7 8 9 10 11 12 13 14 15	inic]> UPDATE lname = 'Laste E personid = ' row affected d: 1 Changed inic]> inic]> select +	person name', fname 15; (0.002 sec) : 1 Warning: * from person Fname Fname Todd Rosie Maram Lin Anne Peter Mary Robert Margaret Creatures Jonathan William Kingdom	on;	WA WA WA WA WA WA WA WA	98401 98105 98033 98402 98047 98047 98122 98125 9852 98746 984101012 974011011 834835646	

Byter namn på personen med personid 15.

Bild på Instruktionerna Hospital Employees.

employeeid | lname fname | education | hiredate | address city | states | zip | homephone 1992-08-04 | 908 W.Capital Way 1994-03-15 | 4726-11th Ave. N.E. 1992-04-01 | 722 Moss Bay Blvd. 1993-10-17 | Coventy House Miner Rd. 1994-11-05 | 7 Hounds tooth Rd. 1993-10-17 | 14 Garret Hill 1992-05-01 | 507-20th Ave. E. Apt. 2A 1994-01-02 | Edgeham Hollow Wincester Way 1993-05-03 | 4110 Old Redmond Rd. (206) 555-9482 (206) 555-1189 (206) 555-3412 (71) 555-7773 (71) 555-4444 (71) 555-4848 (206) 555-9857 (71) 555-5598 (206) 555-8122 2 | Becker 8 | Bowie 3 | Carringt 6 | Chiu 9 | Dennis 5 | Peters 1 | Plotter 7 | Wally 4 | Walters WA WA WA WA WA WA WA 98401 98401 | 98105 | 98033 | 98402 | 98047 | 98047 | 98122 | 98125 | 98052 | | Becker | Bowie | Carrington | Chiu | Dennis | Peters | Plotter Rosie Maram BS. MS. MS. MS. BS. PhD. AA. Seattle Kirkland Lin Anne Peter Mary Robert Margaret Tacoma Bellingham Bellingham Bellingham Seattle Seattle Redmond