

Roser Blasco  
Sprint 4  
Data  
Corregit per XX

## Base de dades

### Nivell 1

Secure\_file\_priv solució

- Exercici 1: 30 transaccions
- Exercici 2: mitjana per iban

### Nivell 2

Exercici 1: targetes actives

### Nivell 3

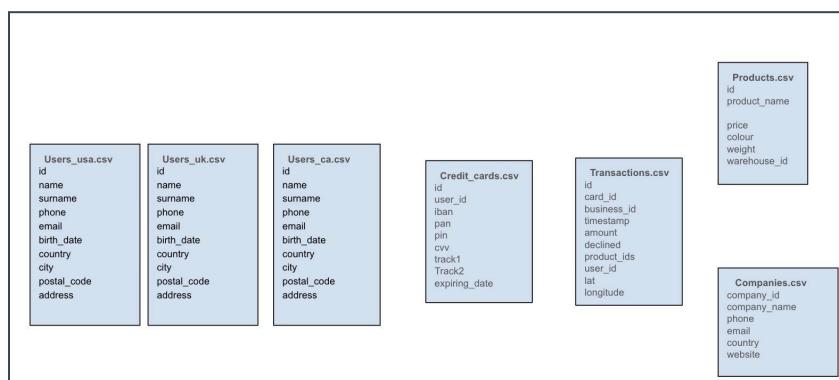
- Reemplaçar espais
- Carregar taula productes
- Llista de productes

Exercici 1: vendes per producte

## Base de dades

Partint d'alguns arxius CSV dissenyaràs i crearàs la teva base de dades.

Descarreguem els arxius i estudiem les taules que ens han donat



M'interessa veure que no hi hagi duplicats en els ids dels usuaris, i no

The image shows two separate windows of what appears to be a spreadsheet application, likely Microsoft Excel or a similar program, running on a Mac OS X desktop. Both windows have a title bar with a red, yellow, and green button, and a menu bar with 'Veure' (View), 'Zoom', 'Afegir categoria' (Add category), and 'Taula dinàmica' (Dynamic table).

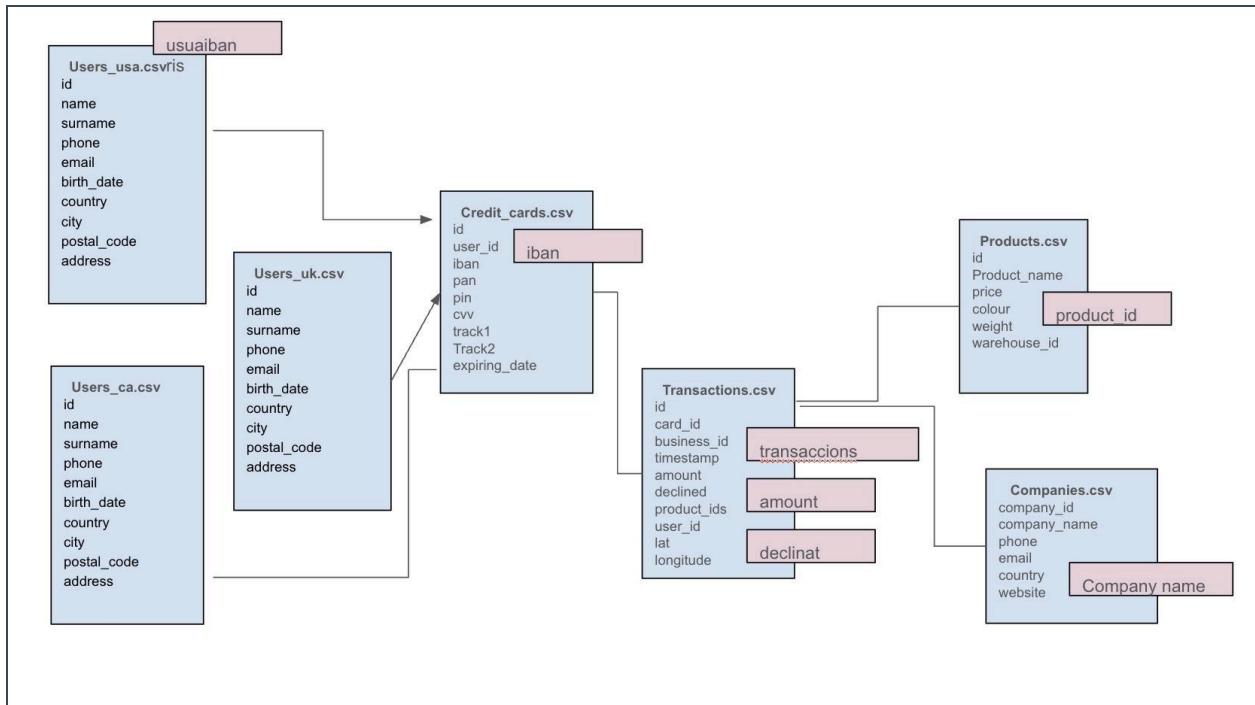
**Left Window (Title: Full 1):**

|    | A         | B           | C              | D               | E                         |
|----|-----------|-------------|----------------|-----------------|---------------------------|
| 1  | <b>id</b> | <b>name</b> | <b>surname</b> | <b>phone</b>    | <b>email</b>              |
| 2  | 151       | Meghan      | Hayden         | 0800 746 6747   | arcu.vel@hotmail.ca       |
| 3  | 152       | Hakeem      | Afford         | (0111) 367 0184 | adipiscing.ligula@poo     |
| 4  | 153       | Keegan      | Pugh           | (016977) 3851   | sodales.sit@aol.org       |
| 5  | 154       | Cooper      | Bullock        | (021) 3231 6627 | et@outlook.ca             |
| 6  | 155       | Joshua      | Russell        | 055 4409 5286   | istet.nec.ante@outfi      |
| 7  | 156       | Ramiro      | Case           | 055 3114 1566   | molli.phasellus.libero@   |
| 8  | 157       | Philip      | Carry          | 0800 640 6251   | pharetra.iulius@yahoo.net |
| 9  | 158       | Fatima      | Dyer           | 0800 1111       | adipiscing@poo            |
| 10 | 159       | Kylynn      | Acosta         | 056 5727 9002   | dignissim.lacus.aqua      |
| 11 | 160       | Lael        | Moody          | 07123 850737    | nunc.sed@aol.org          |
| 12 | 161       | Nora        | Reeves         | (01692) 29410   | ac@aol.com                |
| 13 | 162       | Francesca   | Sawyer         | (01632) 32279   | nunc@protonmail.com       |
| 14 | 163       | Denton      | Blackburn      | (015409) 66385  | tristique@outlook.edu     |
| 15 | 164       | Preston     | Hood           | 0845 46 47      | convalis.est.vitae@al     |
| 16 | 165       | Nora        | Carrell        | 050 677716      | varius.et.eusmod@poo      |
| 17 | 166       | Matthew     | Woodard        | 070 6461 3432   | uram@outlook.net          |
| 18 | 167       | Sheila      | Dickerson      | (01645) 68676   | el@caulis@hotmail.ca      |
| 19 | 168       | Donna       | Rivers         | 07033 472381    | el.erat@aol.org           |
| 20 | 169       | Linda       | Gaines         | (011379) 15148  | faucibus@outlook.edu      |
| 21 | 170       | William     | Benjamin       | 0800 1111       | porttitor@icloud.com      |
| 22 | 171       | Gary        | Robbins        | 0500 856738     | dolor.dolor@google.ed     |
| 23 | 172       | Yoko        | Calhoun        | 055 0680 3561   | dui.nec@outlook.org       |
| 24 | 173       | Bertha      | Stone          | 070 7845 5485   | et.erat@aol.co.uk         |
| 25 | 174       | Amelia      | Kennedy        | (0121) 837 5665 | telus@aol.com             |
| 26 | 175       | Brent       | Batten         | 05049 221383    | ipsum.prinzipal@outlo     |
| 27 | 176       | Lucas       | Stevenson      | 0800 1111       | quis.peda.praser@q        |
| 28 | 177       | Liandra     | Carpenter      | 07624 223719    | nunc@poo                  |
| 29 | 178       | Guinevere   | Kemp           | 070 1590 7780   | suscit@poo                |
| 30 | 179       | Stuart      | Small          | (016977) 2504   | sodales.elit@icloud.c     |
| 31 | 180       | Amelia      | Valenzuela     | (016977) 9972   | ac.ruta@poo               |
| 32 | 181       | Kermit      | O'Brien        | 078 8212 1580   | cus@poo                   |
| 33 | 182       | Dawn        | Sheppard       | 0975 985 5842   | vehicula@hotmail.net      |
| 34 | 183       | Germaine    | Whitehead      | (016977) 5728   | malesuada.malesuada@      |
| 35 | 184       | Uta         | Ramirez        | 055 1225 6227   | phasellus.elit@icloud.c   |
| 36 | 185       | Molly       | Gilliam        | 0800 120 8023   | donec@outlook.co.uk       |
| 37 | 186       | Date        | Gonzalez       | 056 1962 2173   | velit.in.aliquet@prote    |
| 38 | 187       | David       | Vance          | 050 351083      | vulputate.veli.eu@pro     |
| 39 | 188       | Keane       | McKinney       | 0345 629 4218   | arco@poo                  |
| 40 | 189       | Walter      | Lamb           | (016977) 7335   | ut.erat@hotmail.edu       |
| 41 | 190       | Shelbie     | Velazquez      | 0500 889570     | dictum.phasellus.infq     |
| 42 | 191       | Dendre      | Todd           | 056 3122 8029   | purus.mauris.ad@clou      |
| 43 | 192       | Phoebe      | Roth           | 078 5361 4785   | arco.eu@google.org        |
| 44 | 193       | Minerva     | Wilkins        | 07581 386219    | quam@poo                  |
| 45 | 194       | Porter      | Francis        | 0500 257479     | quis.accursem@ad          |
| 46 | 195       | Rosalyn     | Blake          | (015905) 28451  | integer@protonmai         |
| 47 | 196       | Blaze       | Duke           | 0800 060 8337   | quis@hotmail.ca           |
| 48 | 197       | Carly       | Mathews        | (024) 5216 7655 | maurus@protonmai          |
| 49 | 198       | Keely       | Fox            | 0800 1111       | ic@mail@google.co         |
| 50 | 199       | Lewis       | Melendez       | (016977) 5758   | non@yahoo.ca              |
| 51 | 200       | Nero        | Mills          | 056 4507 5712   | adipiscing@protonmai      |

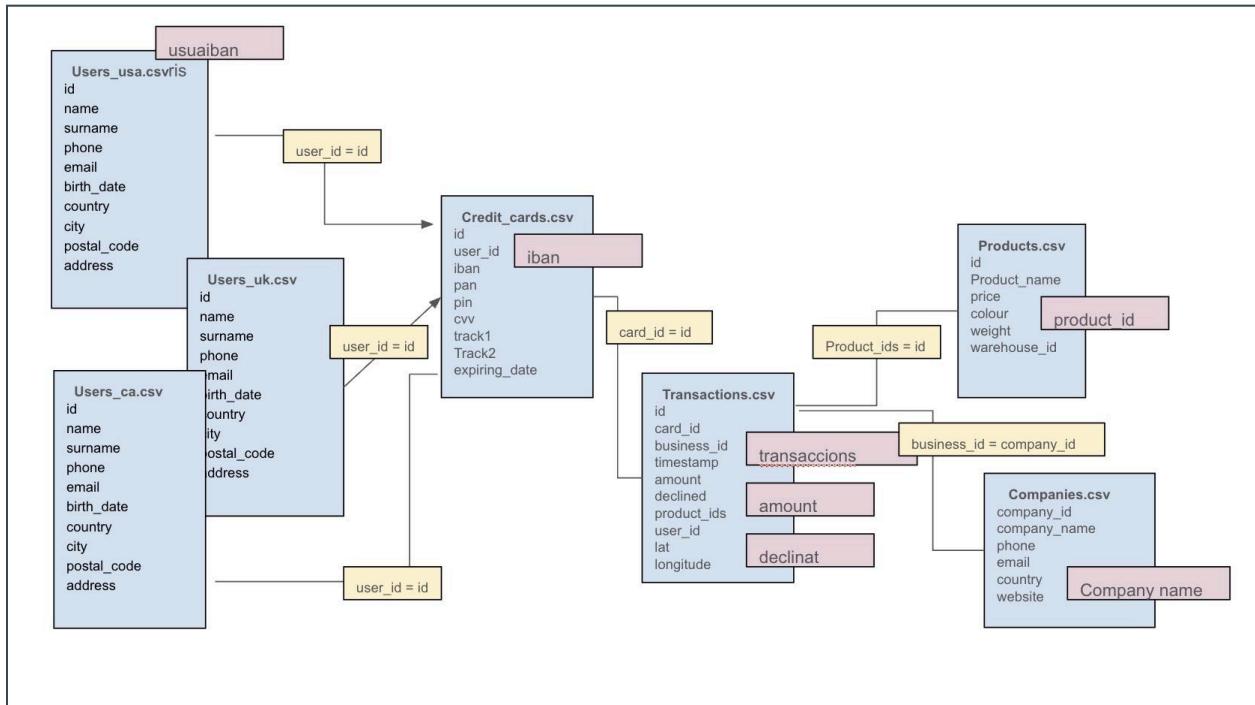
**Right Window (Title: Full 1):**

|    | A         | B           | C              | D            |
|----|-----------|-------------|----------------|--------------|
| 1  | <b>id</b> | <b>name</b> | <b>surname</b> | <b>phone</b> |
| 2  | 201       | Iola        | Powers         | 018-139-4717 |
| 3  | 202       | Maxwell     | Holden         | 045-402-7693 |
| 4  | 203       | Jarrod      | Fields         | 010-741-8105 |
| 5  | 204       | Emerson     | Sharp          | 068-138-9383 |
| 6  | 205       | Sonya       | McKee          | 041-151-9737 |
| 7  | 206       | Harper      | Hart           | 030-656-1670 |
| 8  | 207       | Yvonne      | Hatfield       | 003-854-1445 |
| 9  | 208       | Burke       | Graham         | 064-568-4454 |
| 10 | 209       | Athena      | Malone         | 027-280-8275 |
| 11 | 210       | Slade       | Poole          | 084-771-1363 |
| 12 | 211       | Larissa     | Carpenter      | 066-617-3711 |
| 13 | 212       | Zeph        | Schmidt        | 056-157-7412 |
| 14 | 213       | Blake       | Strickland     | 067-339-3024 |
| 15 | 214       | Cleo        | George         | 026-867-1198 |
| 16 | 215       | Keegan      | Watson         | 058-771-3718 |
| 17 | 216       | Tana        | Stout          | 035-569-5523 |
| 18 | 217       | Avye        | Key            | 016-727-3427 |
| 19 | 218       | Sonia       | Dejesus        | 091-540-1865 |
| 20 | 219       | Ivan        | Saunders       | 036-230-9218 |
| 21 | 220       | Martha      | Roth           | 077-482-6236 |
| 22 | 221       | Sasha       | Emerson        | 024-226-4281 |
| 23 | 222       | Theodore    | Barry          | 098-447-1583 |
| 24 | 223       | Linus       | Willis         | 056-347-2535 |
| 25 | 224       | Raymond     | Oneil          | 001-668-7183 |
| 26 | 225       | Ursa        | Kelly          | 007-454-7455 |
| 27 | 226       | Willa       | Rowland        | 011-259-1714 |
| 28 | 227       | Idola       | Bowen          | 039-398-2123 |
| 29 | 228       | Leonard     | Davenport      | 022-150-5117 |

Afegim en rosa les dades que ens demanaran després en els exercicis

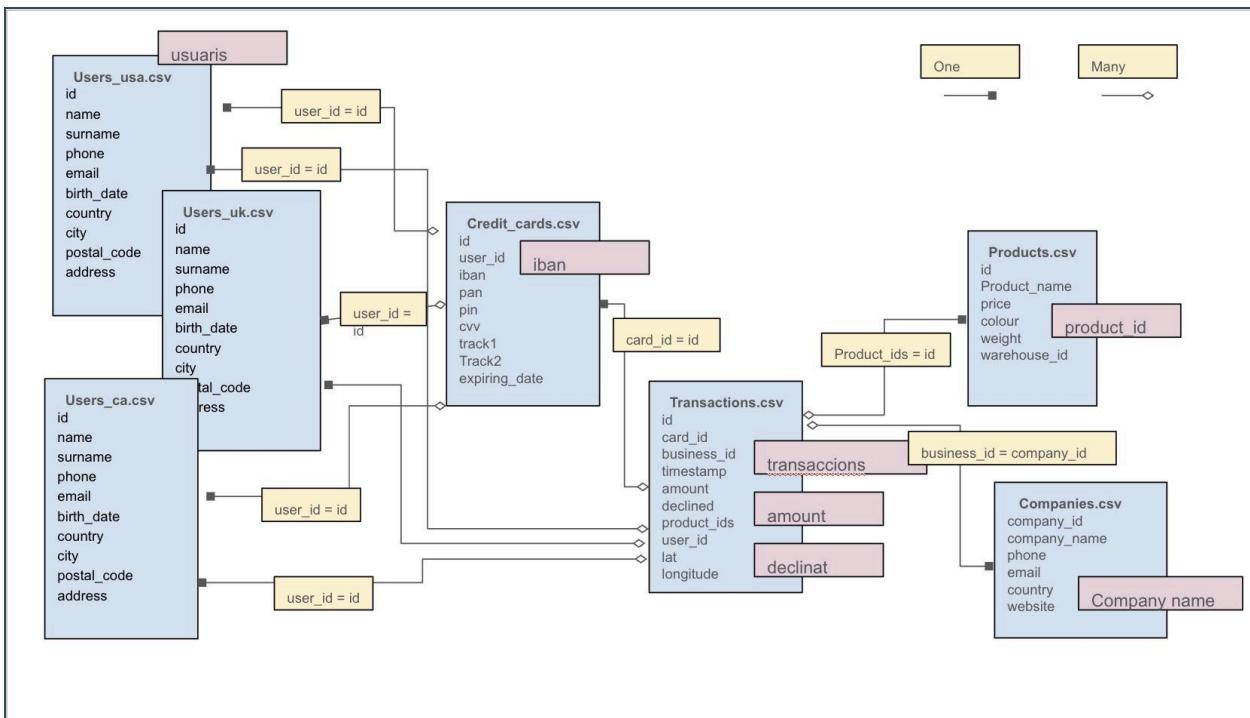


Li afegeixo en groc el qu sospito que relaciona les taules

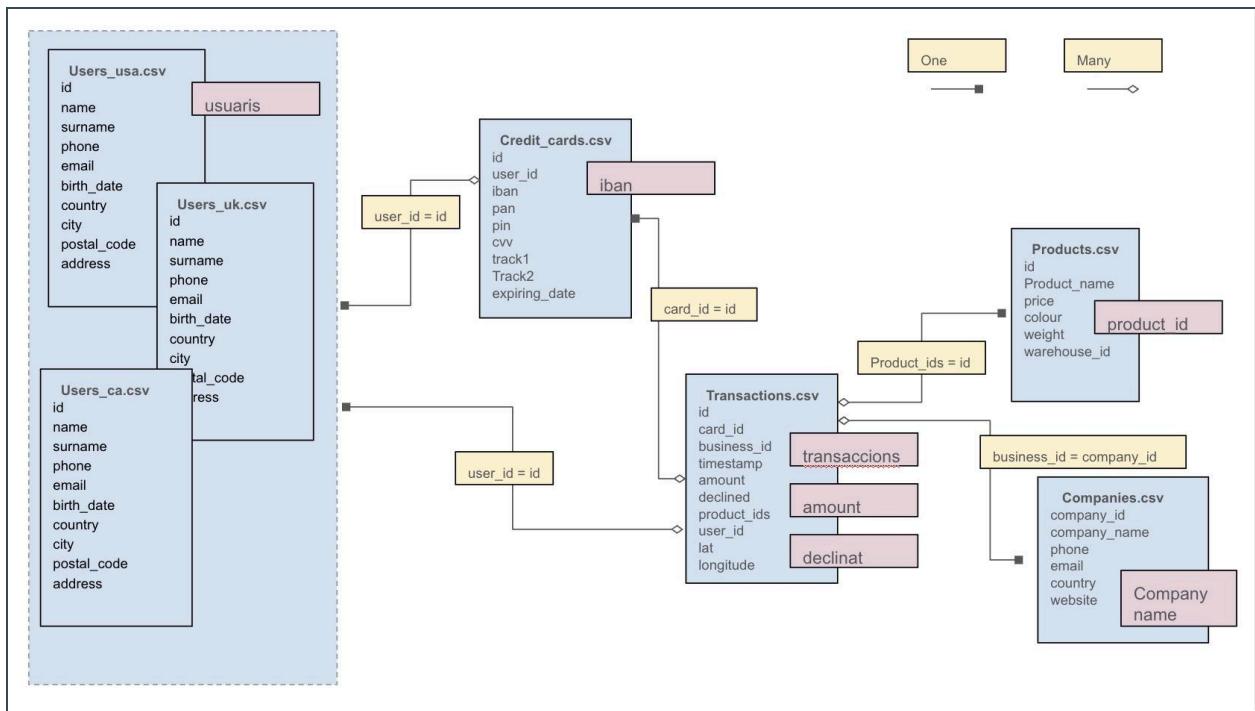


Potser val la pena juntar totes les taules de users i poder simplificar aquesta relació amb credit card per a que sigui de 1 a molts

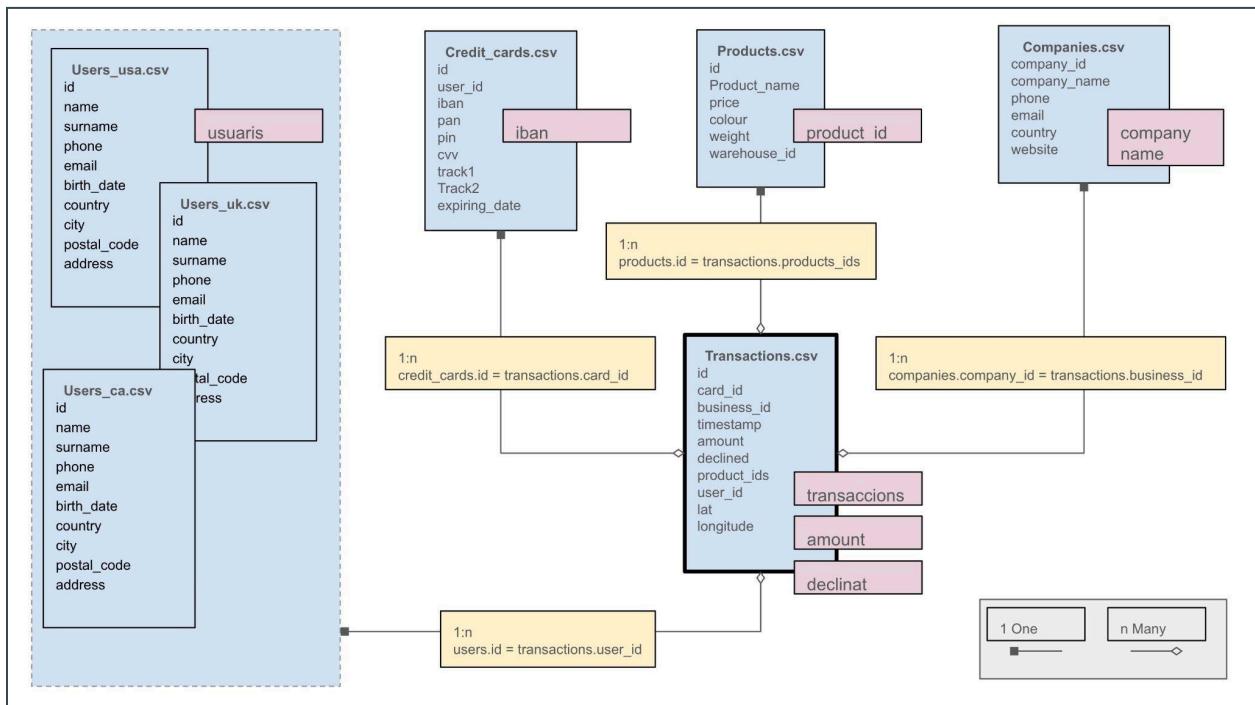
Intentem ser més clars amb les relacions al diagrama. A més, ens hem adonat que el user\_id també apareix a transaccions, així que les relacions són encara més complicades



Caldrà doncs unir la taula de users, a més a més, perquè quan es crein nous usuaris hem d'evitar duplicats en el id d'usuari



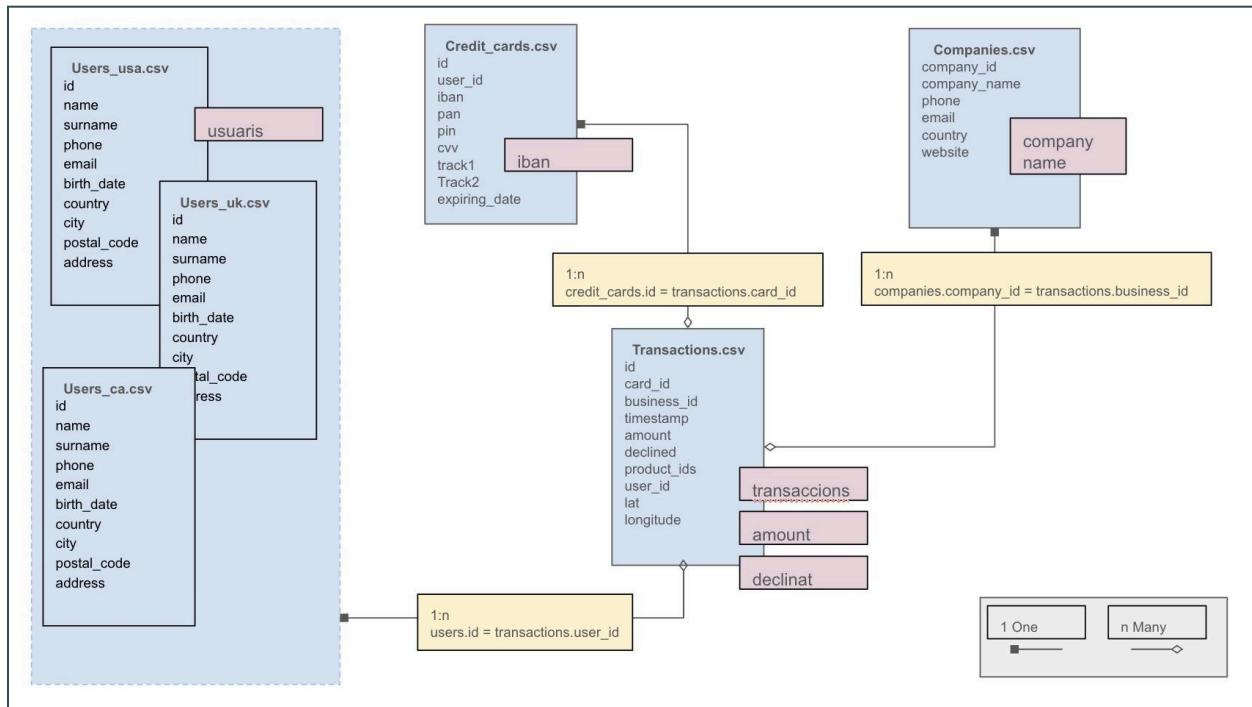
Però aquestes relacions triangulades no són recomanables i a més ens demanen una esquema d'estrella, així que treurem una de les relacions. Potser no ens interessa de qui usuari és realment la targeta, sinó qui usuari la fa servir.



# Nivell 1

Descàrrega els arxius CSV, estudia'ls i dissenya una base de dades amb un esquema d'estrella que contingui, almenys 4 taules de les quals puguis realitzar les següents consultes:

De moment montarem la següent base de dades amb 4 taules amb un esquema d'estrella



Començarem per crear la base de dades

Screenshot of MySQL Workbench showing the creation of a database named 'modelat\_sql\_roser'. The SQL editor contains the following code:

```
-- Cream una base de dades
CREATE DATABASE IF NOT EXISTS modelat_sql_roser;
```

The 'Action Output' pane shows the execution results:

| Action  | Time     | Response          | Duration / Fetch Time |
|---|----------|-------------------|-----------------------|
| CREATE DATABASE IF NOT EXISTS modelat_sql_roser | 13:21:45 | 1 row(s) affected | 0.068 sec             |

## I les taules

Screenshot of MySQL Workbench showing the execution of a script to create tables in the 'modelat\_sql\_roser' schema.

```

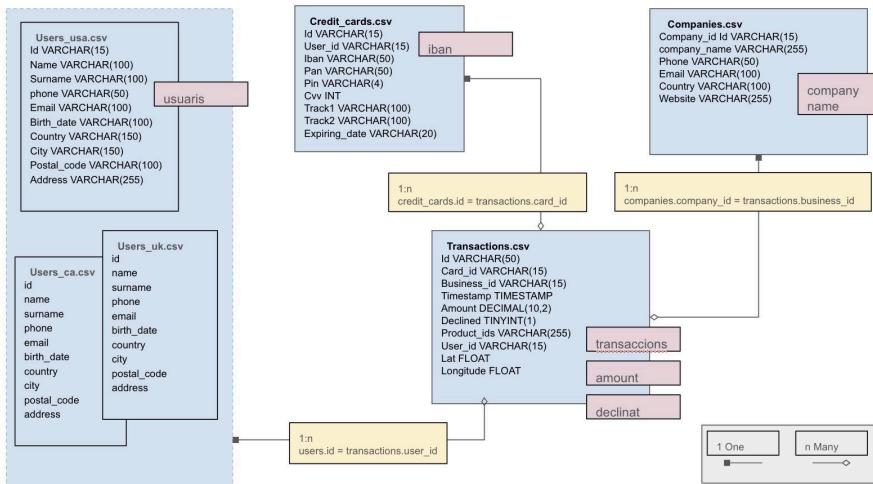
USE modelat_sql_roser;
-- Creem la taula users
CREATE TABLE IF NOT EXISTS users (
    id VARCHAR(15) PRIMARY KEY
);
-- Creem la taula credit cards
CREATE TABLE IF NOT EXISTS credit_cards (
    id VARCHAR(15) PRIMARY KEY
);
-- Creem la taula transactions
CREATE TABLE IF NOT EXISTS transactions (
    id VARCHAR(15) PRIMARY KEY
);
-- Creem la taula companies
CREATE TABLE IF NOT EXISTS companies (
    id VARCHAR(15) PRIMARY KEY
);

```

The session log shows the following actions:

| Action   | Time     | Response          | Duration / Fetch Time |
|--|----------|-------------------|-----------------------|
| USE modelat_sql_roser                                      | 13:41:29 | 0 row(s) affected | 0.023 sec             |
| CREATE TABLE IF NOT EXISTS users ( id VARCHAR(15) )        | 13:41:29 | 0 row(s) affected | 0.041 sec             |
| CREATE TABLE IF NOT EXISTS credit_cards ( id VARCHAR(15) ) | 13:41:29 | 0 row(s) affected | 0.0056 sec            |
| CREATE TABLE IF NOT EXISTS transactions ( id VARCHAR(15) ) | 13:41:29 | 0 row(s) affected | 0.0043 sec            |
| CREATE TABLE IF NOT EXISTS companies ( id VARCHAR(15) )    | 13:41:29 | 0 row(s) affected | 0.0033 sec            |

Ara mirem què hi volem a les taules



i veiem que haurem de canviar la llargada dels ids de transaction

```

1 • ALTER TABLE transactions
2 MODIFY COLUMN id VARCHAR(50);

```

Action Output

| Time     | Action  | Response   | Duration / Fetch Time |
|----------|---|--|-----------------------|
| 15:43:07 | ALTER TABLE transactions MODIFY COLUMN id VARCHAR(50) | 0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0 | 0.026 sec             |

Ara afegirem les altres columnes a transactions. Ojut amb el warning del TINYINT

```

1 • ALTER TABLE transactions
2 ADD card_id VARCHAR(15),
3 ADD business_id VARCHAR(15),
4 ADD timestamp TIMESTAMP,
5 ADD amount DECIMAL(10,2),
6 ADD declined TINYINT(1),
7 ADD product_ids VARCHAR(255),
8 ADD user_id VARCHAR(15),
9 ADD lat FLOAT,
10 ADD longitude FLOAT;

```

Object Info

Column: **id**

Collation: utf8mb4\_0900\_ai\_ci

Definition:

|           |                |
|-----------|----------------|
| <b>id</b> | varchar(15) PK |
|-----------|----------------|

Action Output

| Time     | Action                     | Response   | Duration / Fetch Time |
|----------|----------------------------|--|-----------------------|
| 15:49:57 | ALTER TABLE transaction... | 0 row(s) affected, 1 warning(s): 1681 Integer display width is deprecated and will be removed... | 0.066 sec             |

Afegim columnes a la taula users

The screenshot shows the MySQL Workbench interface with the following details:

- Toolbar:** Standard MySQL Workbench icons for file, edit, and database operations.
- Left Panel (Administration):** Shows the schema tree under "SCHEMAS". The "users" table is selected, and its columns (id, name, surname, phone, email, birth\_date, country, city, postal\_code) are listed.
- Central Panel:**
  - SQL Editor:** Displays the SQL query:

```

1 • ALTER TABLE users
2 ADD name VARCHAR(100),
3 ADD surname VARCHAR(100),
4 ADD phone VARCHAR(50),
5 ADD email VARCHAR(100),
6 ADD birth_date VARCHAR(100),
7 ADD country VARCHAR(150),
8 ADD city VARCHAR(150),
9 ADD postal_code VARCHAR(100),
10 ADD address VARCHAR(255);

```
  - Action Output:** Shows the execution results:

| Time     | Action                   | Response   | Duration / Fetch Time |
|----------|--------------------------|--|-----------------------|
| 15:58:14 | ALTER TABLE users ADD... | 0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0 | 0.040 sec             |
- Bottom Status Bar:** "Query Completed".

## Taula credit cards

The screenshot shows the MySQL Workbench interface with the following details:

- Toolbar:** Standard MySQL Workbench icons for file, edit, and database operations.
- Left Panel (Administration):** Shows the schema tree under "SCHEMAS". The "modelat\_sql\_roser" database is selected, and the "credit\_cards" table is selected. Its columns (id, user\_id, iban, pan, pin, cvv) are listed.
- Central Panel:**
  - SQL Editor:** Displays the SQL query:

```

1 • ALTER TABLE credit_cards
2 ADD user_id VARCHAR(15),
3 ADD iban VARCHAR(50),
4 ADD pan VARCHAR(50),
5 ADD pin VARCHAR(4),
6 ADD cvv INT,
7 ADD track1 VARCHAR(100),
8 ADD track2 VARCHAR(100),
9 ADD expiring_date VARCHAR(20);
10
11

```
  - Action Output:** Shows the execution results:

| Time     | Action                     | Response   | Duration / Fetch Time |
|----------|----------------------------|--|-----------------------|
| 16:01:43 | ALTER TABLE credit_card... | 0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0 | 0.0099 sec            |
- Bottom Status Bar:** "Query Completed".

## I la última, la taula companies

The screenshot shows the MySQL Workbench interface. On the left, the 'Administration' tab is selected, displaying the 'modelat\_sql\_roser' schema. Under 'Tables', the 'companies' table is selected, showing its columns: id, company\_name, phone, email, country, and website. The 'Object Info' tab is also visible. In the main pane, a SQL editor titled 'Sprint 4\*' is open with the following query:

```

1 • ALTER TABLE companies
2   ADD company_name VARCHAR(255),
3   ADD phone VARCHAR(50),
4   ADD email VARCHAR(100),
5   ADD country VARCHAR(100),
6   ADD website VARCHAR(255);
7
8
9

```

The status bar at the bottom indicates 'Query Completed'.

Ara doncs li diem que carregui les dades de transactions

The screenshot shows the MySQL Workbench interface. On the left, the 'Administration' tab is selected, displaying the 'modelat\_sql\_roser' schema. Under 'Tables', the 'transactions' table is selected, showing its columns: id, card\_id, business\_id, timestamp, amount, declined, product\_ids, user\_id, lat, and longitude. The 'Object Info' tab is also visible. In the main pane, a SQL editor titled 'Sprint 4\*' is open with the following query:

```

1
2 • LOAD DATA INFILE 'transactions.csv' INTO TABLE transactions;

```

The status bar at the bottom indicates 'Query interrupted'.

```
16:13:58    LOAD DATA INFILE 'transactions.csv' INTO TABLE
transactions      Error Code: 1290. The MySQL server is running with
the --secure-file-priv option so it cannot execute this statement
0.0045 sec
```

Busquem aquesta variable

The screenshot shows the MySQL Workbench interface. On the left, the 'Schemas' tree view is open, showing the 'modelat\_sql\_roser' schema with tables like 'companies', 'credit\_cards', 'transactions', and 'users'. The 'Session' tab is selected. In the center, a query editor window displays the following SQL command and its result:

```
1
2 •  show variables like 'secure_file_priv'
```

The result grid shows one row:

| Variable_name    | Value |
|------------------|-------|
| secure_file_priv | NULL  |

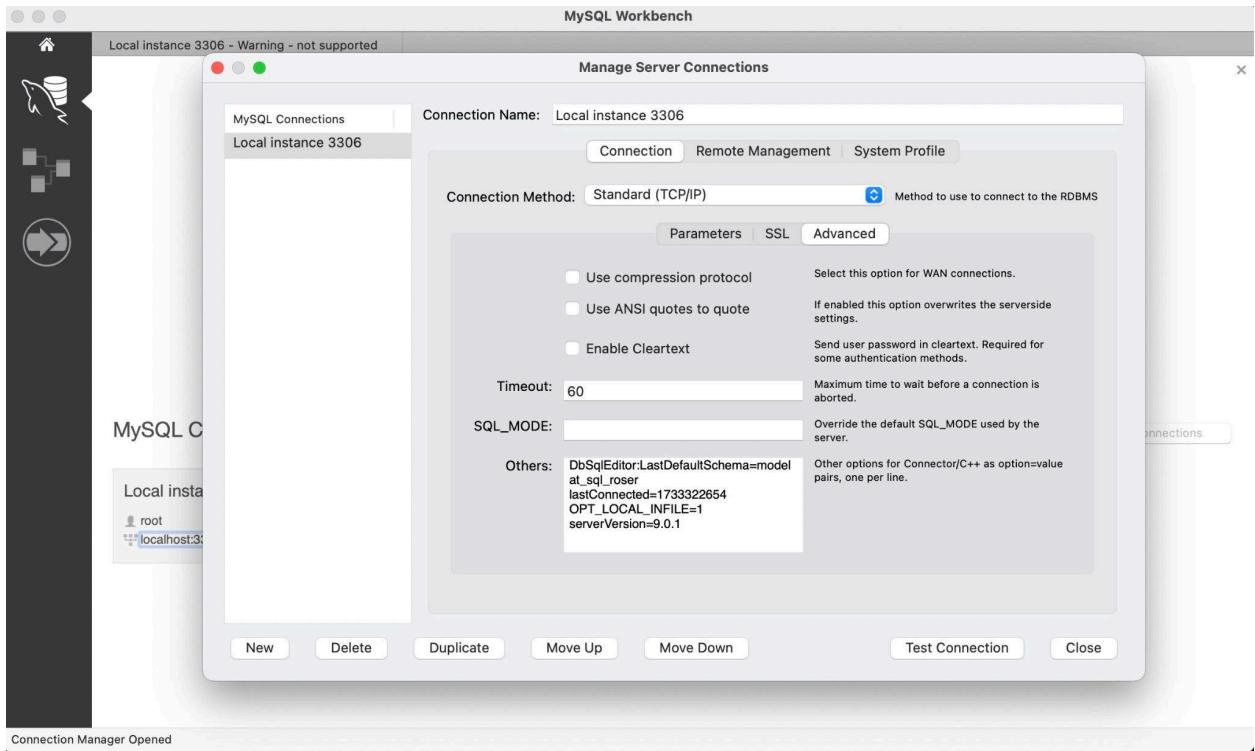
At the bottom of the interface, the status bar indicates "Query Completed".

[https://dev.mysql.com/doc/refman/8.0/en/server-system-variables.html#sysvar\\_secure\\_file\\_priv](https://dev.mysql.com/doc/refman/8.0/en/server-system-variables.html#sysvar_secure_file_priv)

We have to change the secure-file-priv setting in the MySQL configuration file (my.cnf or my.ini depending on the system) ([link](#))

Local infile ([link](#)), ([link](#)), ([link](#))

....



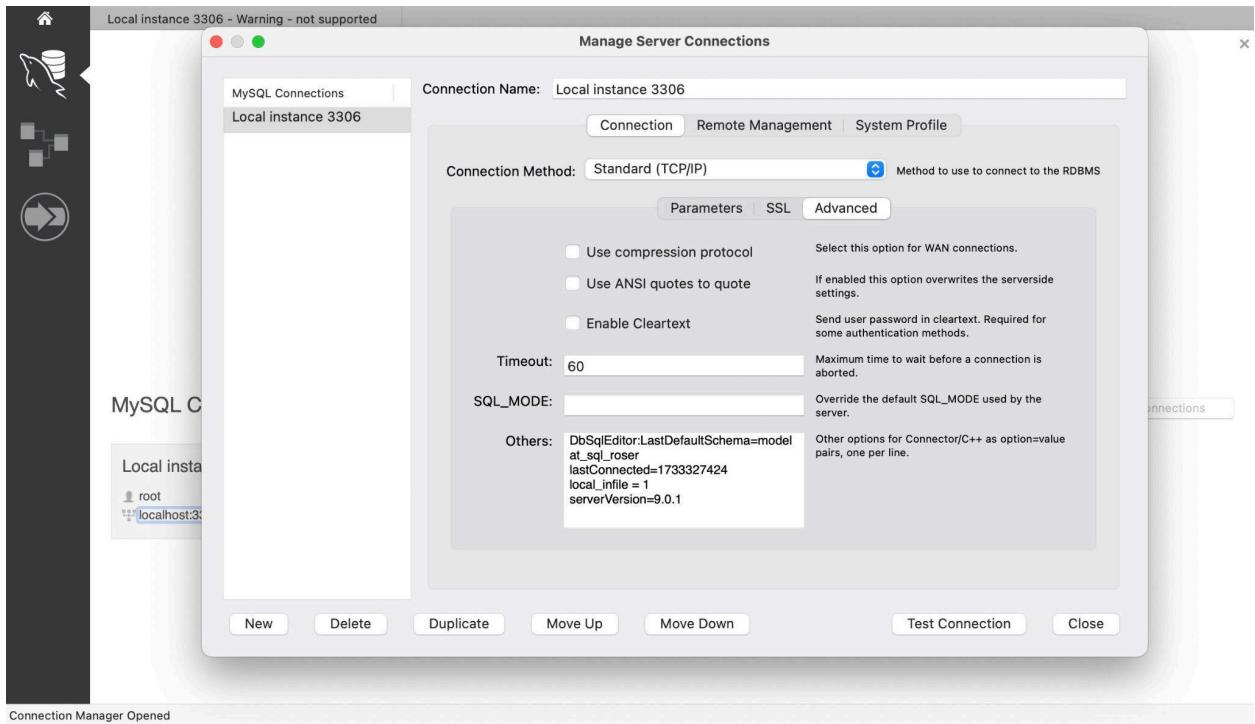
I tornem a provar

| Action | Time     | Action  | Response  | Duration / Fetch Time |
|--------|----------|---|---|-----------------------|
| 1      | 16:47:14 | LOAD DATA INFILE 'transactions.csv' INTO TABLE transactions | Error Code: 1290. The MySQL server is running with t... | 0.0069 sec            |

Error

```
16:47:14    LOAD DATA INFILE 'transactions.csv' INTO TABLE
transactions      Error Code: 1290. The MySQL server is running with
the --secure-file-priv option so it cannot execute this statement
0.0069 sec
```

I provem d'una altra manera



Connection Manager Opened

## I continua en NULL

Administration   Schemas   Query 2   SQL File 3\*   Sprint 4

SCHEMAS

modelat\_sql\_rosen

Tables   Views   Stored Procedures

Object Info   Session

No object selected

Result Grid   Filter Rows: Search   Export:

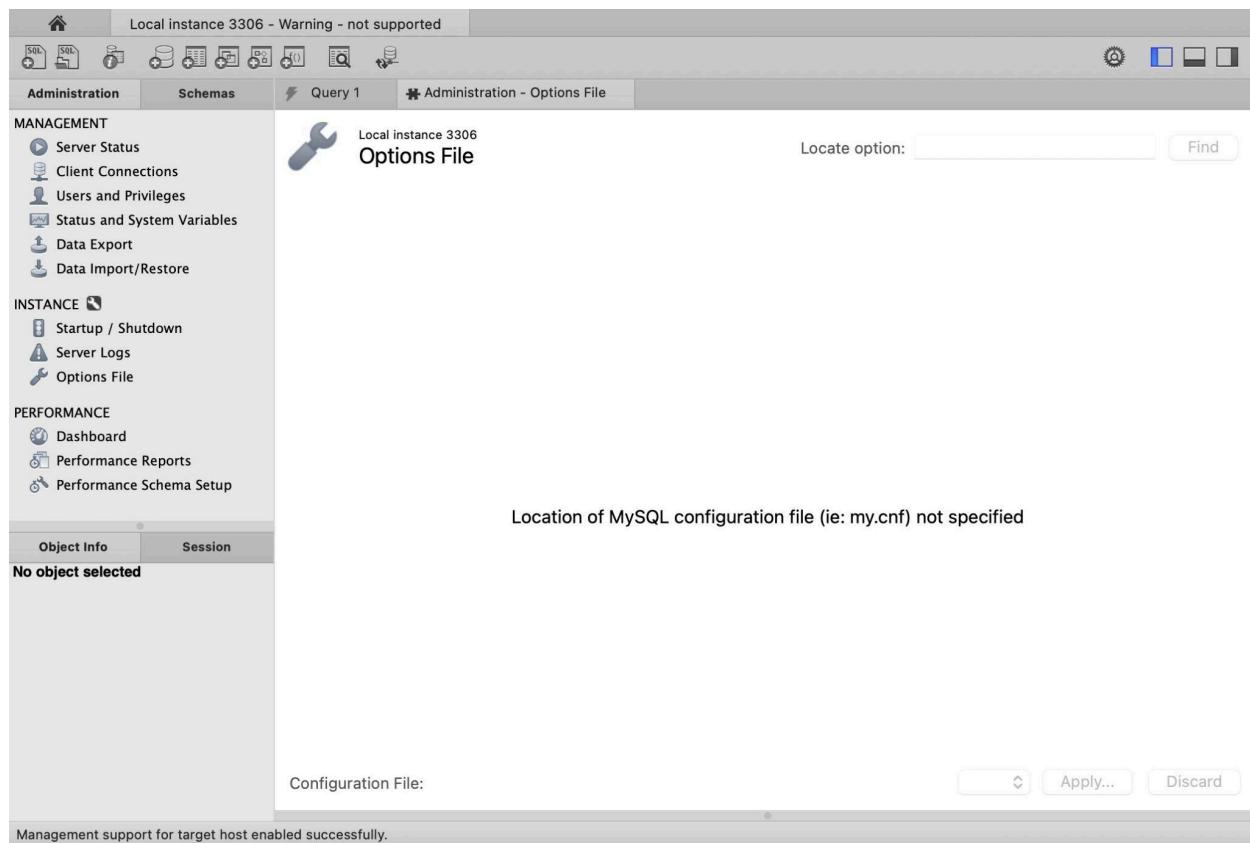
| Variable_name    | Value |
|------------------|-------|
| secure_file_priv | NULL  |

Action Output

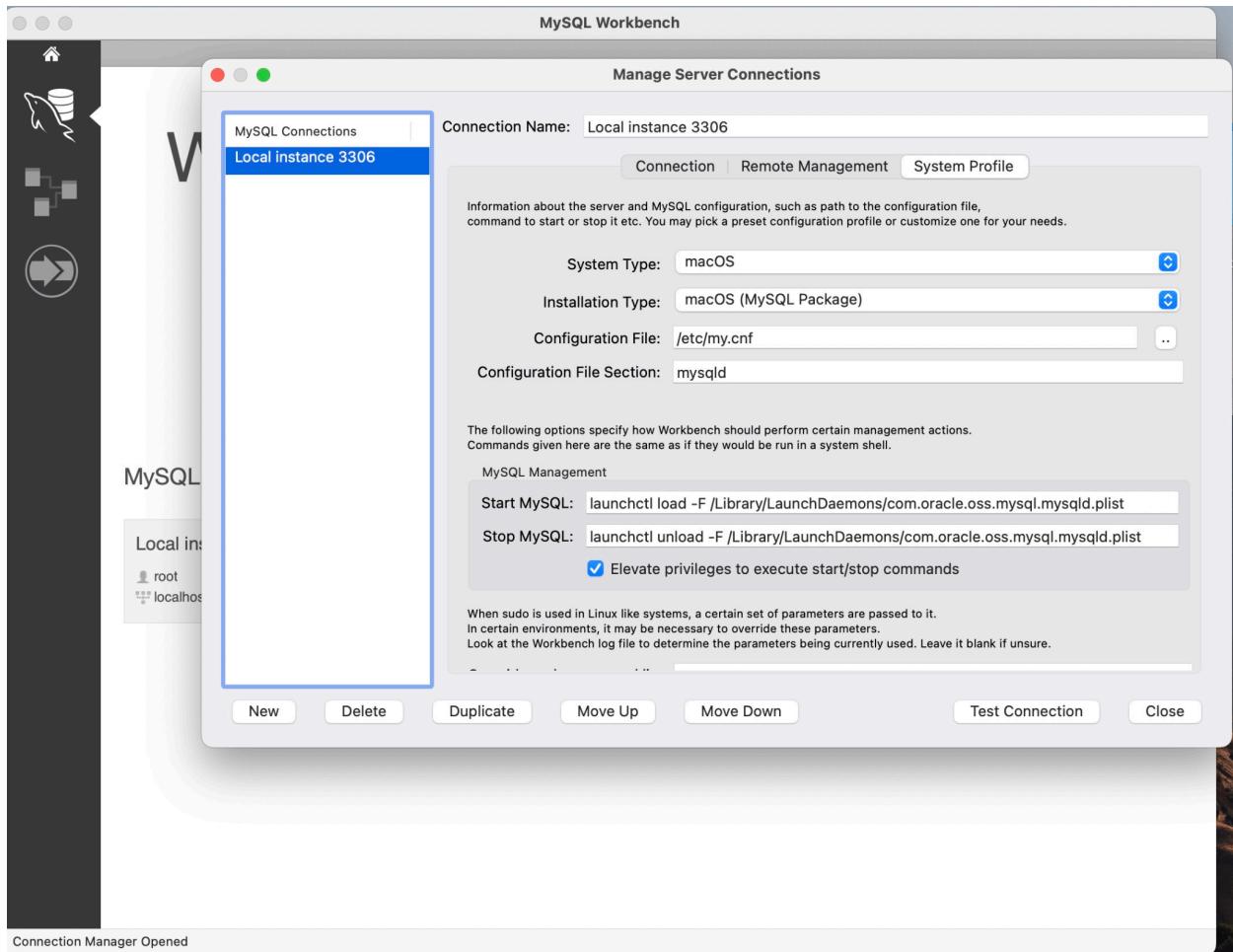
| Time     | Action                                 | Response          | Duration / Fetch Time   |
|----------|--|-------------------|-------------------------|
| 16:51:58 | show variables like 'secure_file_priv' | 1 row(s) returned | 0.0037 sec / 0.00001... |

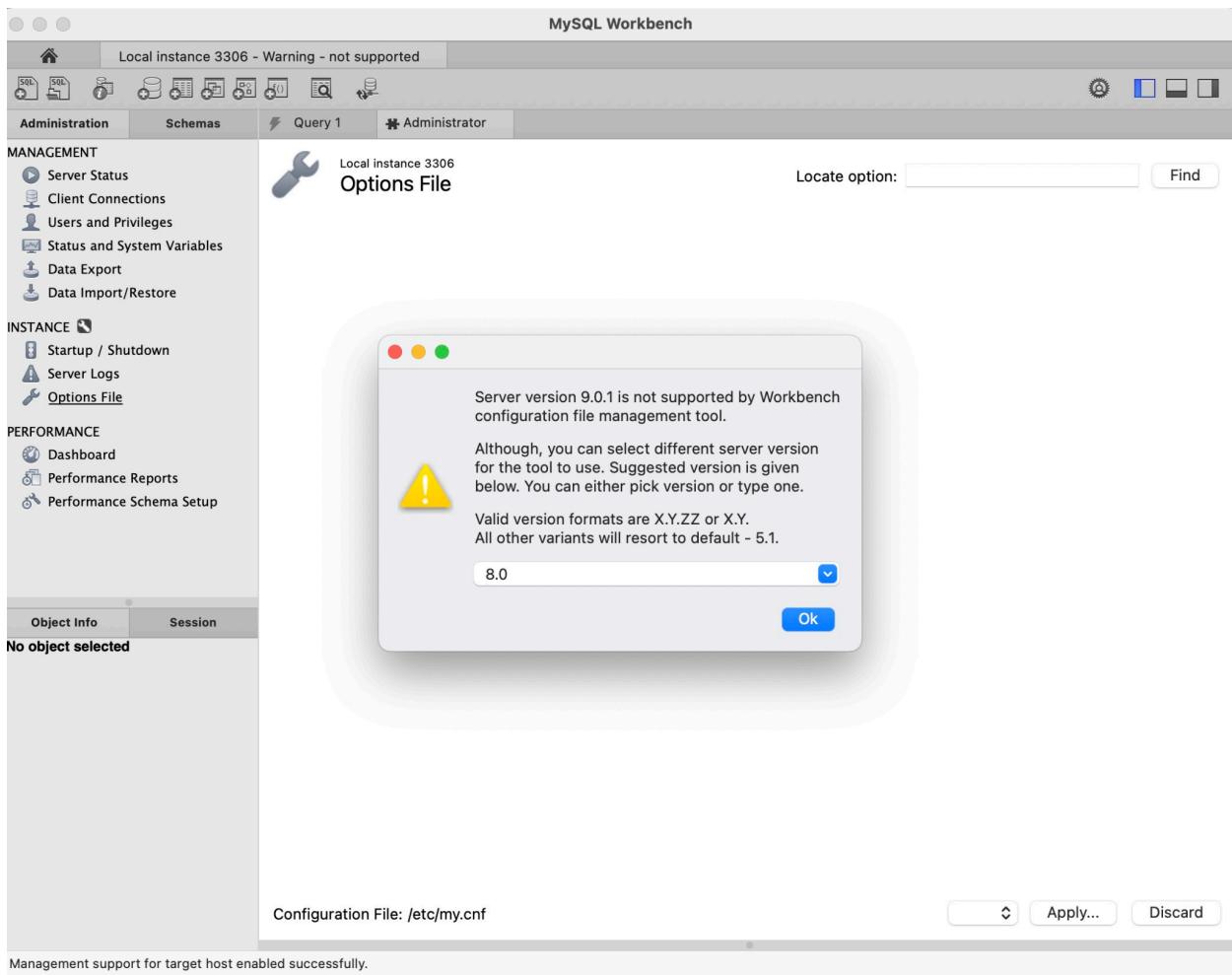
Query Completed

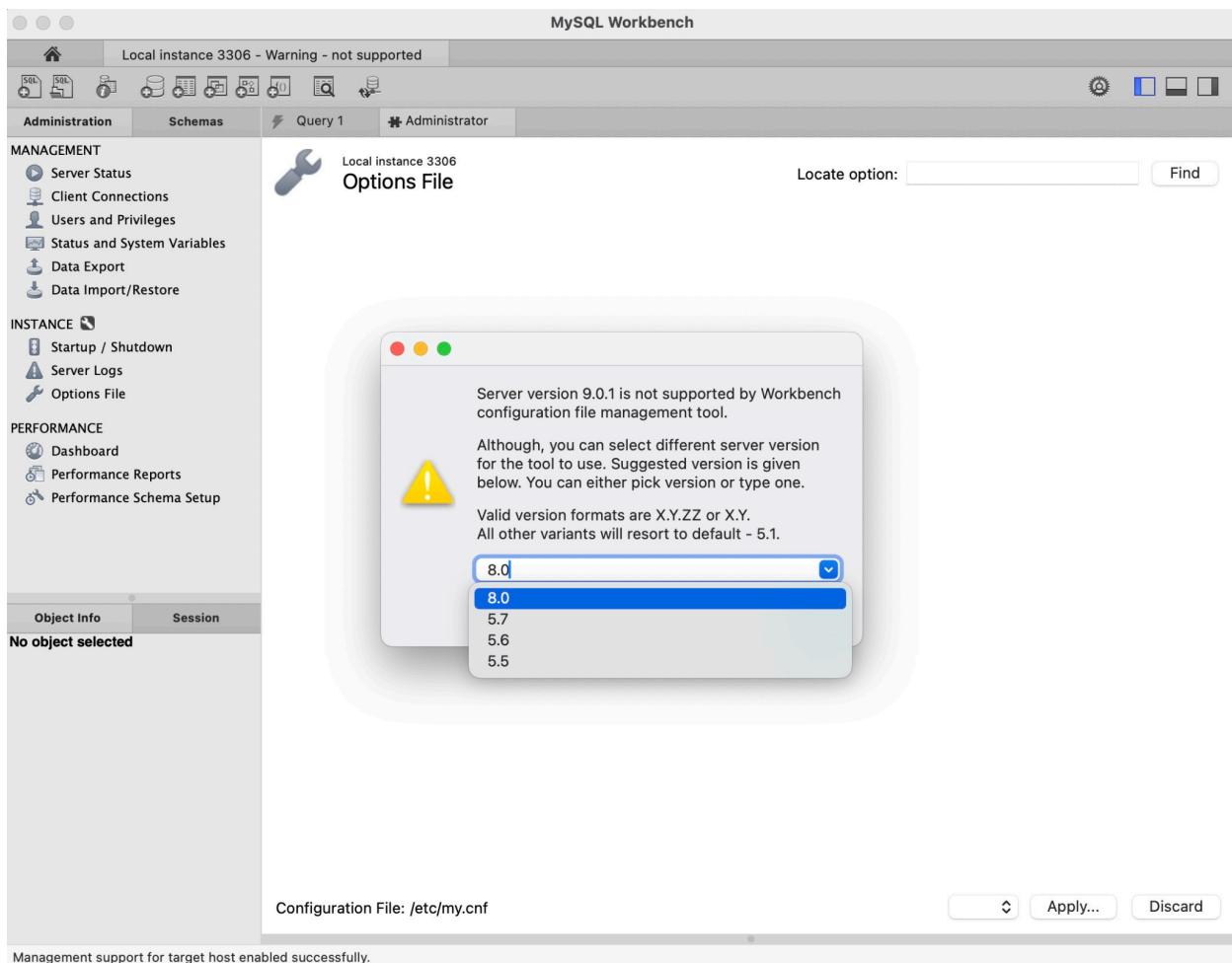
Segons [aquest article](#), MySQL Workbench pot buscar l'arxiu my.cnf a Mac, i si no el troba, ens el crea. Hem seguit les instruccions i no ens l'ha creat.

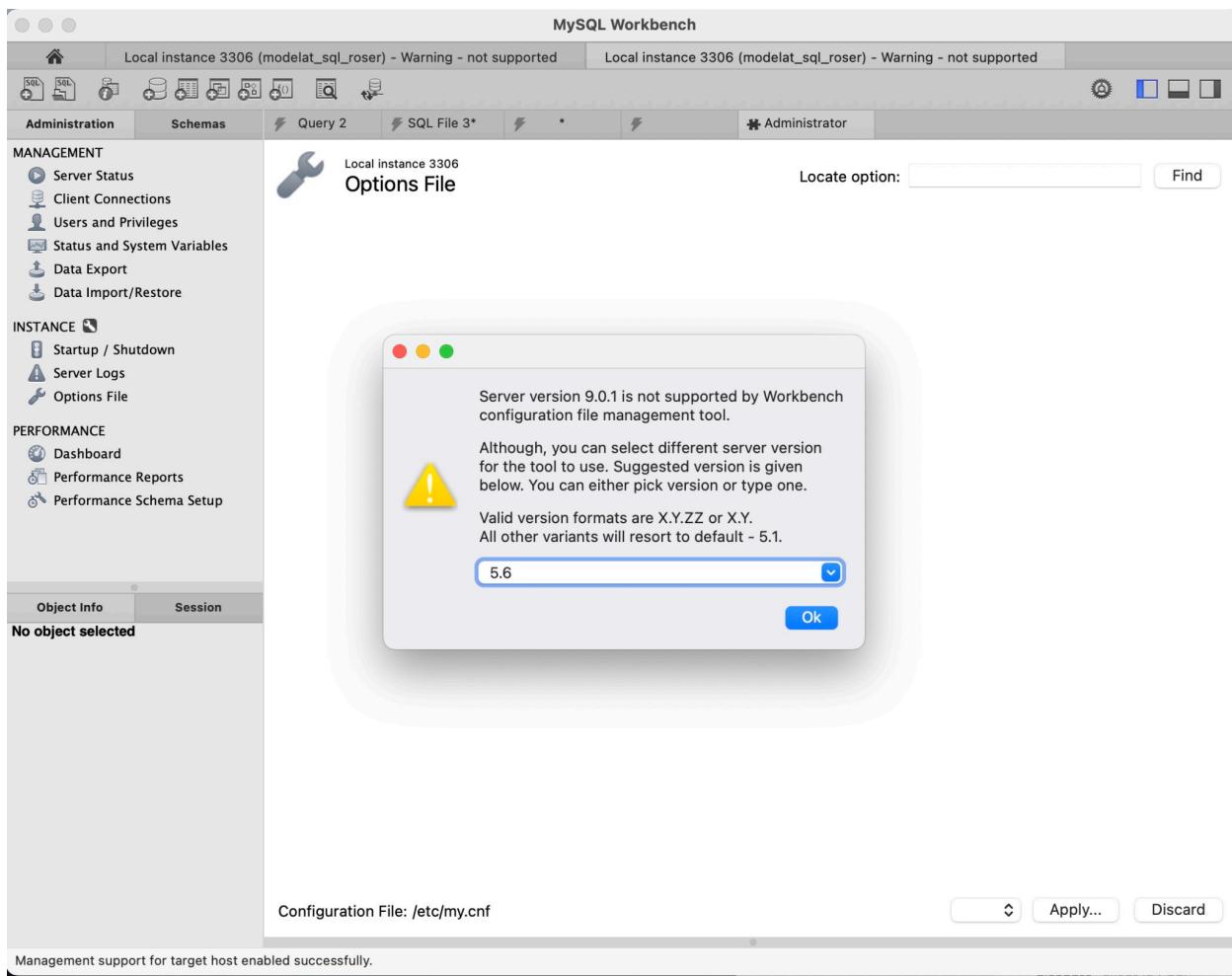


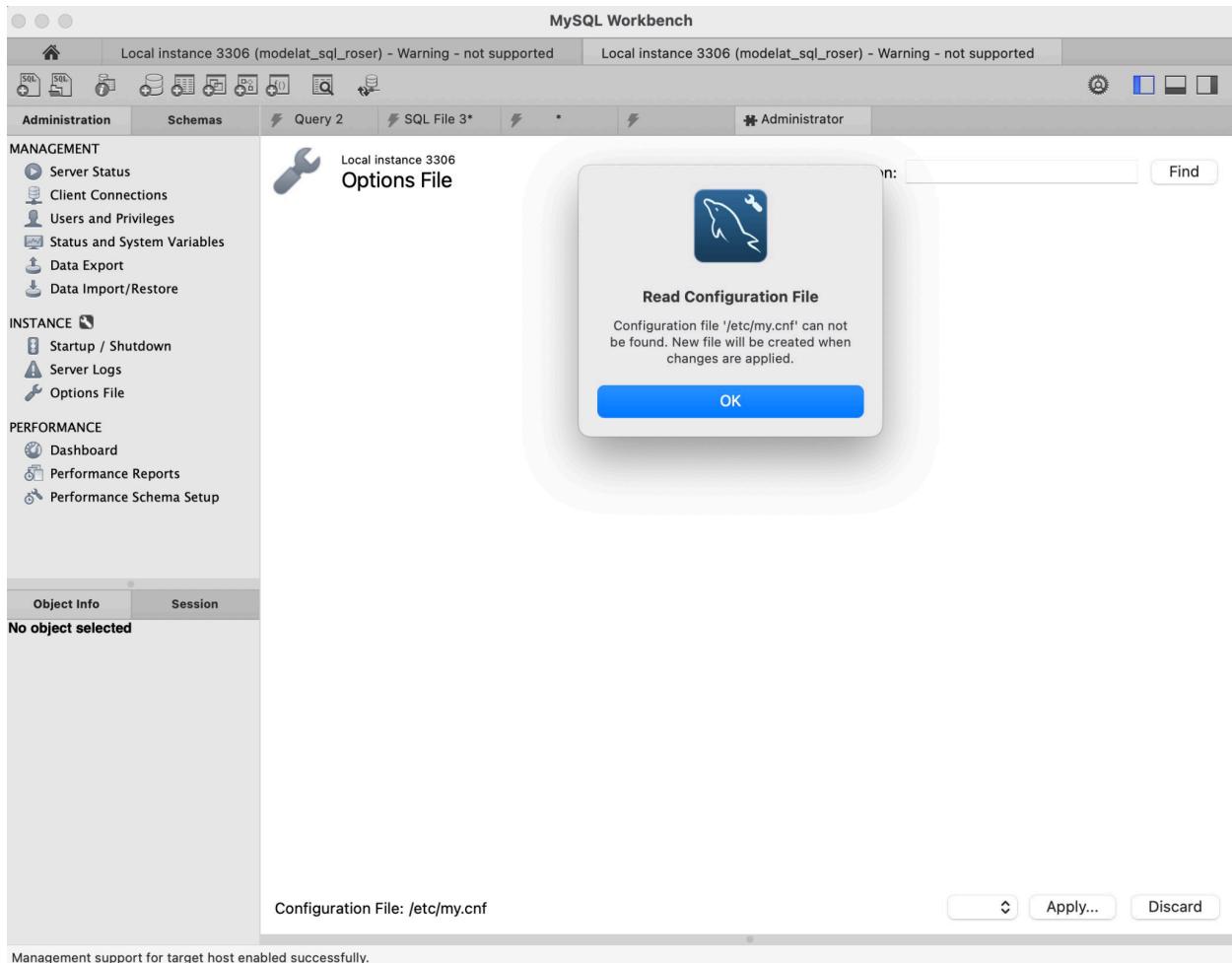
Hem seguit els passos [d'aquesta resposta](#) per a forçar la creació d'aquest fitxer. De pas ens ha baixat la versió de SQL.

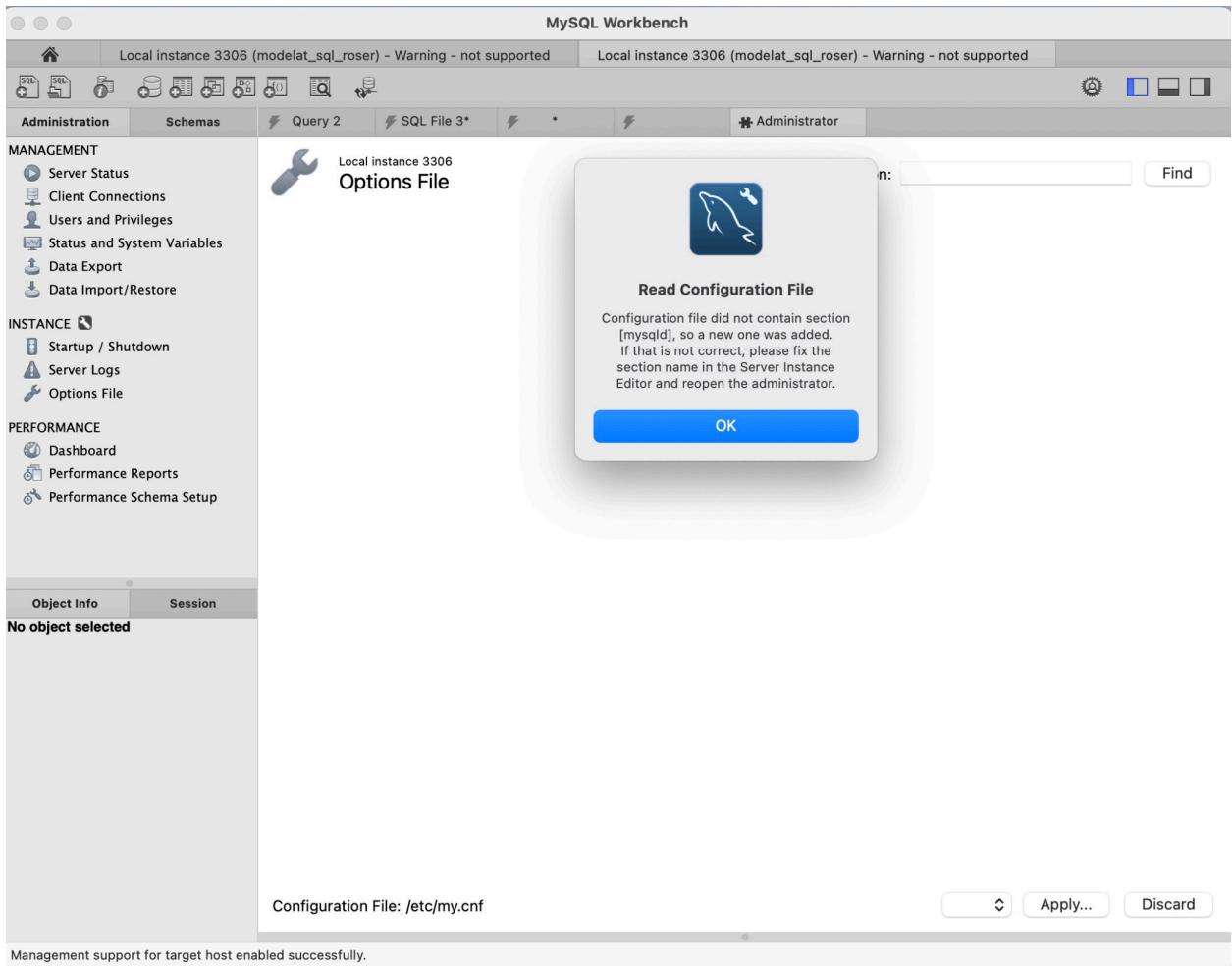












Ara copiem i puguem l'arxiu de config d'un company.  
Tanquem workbench i tornem a obrir. Segueix donant error.

Ara provem amb [aquesta proposta](#) que tampoc funciona

```
Last login: Thu Dec  5 13:01:39 on console
↳ ~ mysql.server stop
Shutting down MySQL
... SUCCESS!
↳ ~ mysql.server start --secure-file-priv=''
Starting MySQL
2024-12-05T12:15:18.6NZ mysqld_safe Directory '/Applications/XAMPP/xamppfiles/var/mysql' for UNIX socket file don't exists.
ERROR! The server quit without updating PID file (/opt/homebrew/var/mysql/MacBook-Air-de-Roser.local.pid).
↳ ~
```

Provem a canviar config

```

145
146 [mysql]
147 # Remove the next comment character if you are not familiar with SQL
148 #safe-updates
149 #secure_file_priv = ""
150 --secure-file-priv=''
151
152

```

Pero es carrega la connexió

**Connection Name:** Local instance 3306

**Host:** n/a  
**Socket:** n/a  
**Port:** n/a  
**Version:** n/a ()  
**Compiled For:** n/a (n/a)  
**Configuration File:** /etc/my.cnf  
**Running Since:** n/a

**Available Server Features**

|                              |     |                      |     |
|------------------------------|-----|----------------------|-----|
| Performance Schema:          | n/a | PAM Authentication:  | n/a |
| Thread Pool:                 | n/a | Password Validation: | n/a |
| Memcached Plugin:            | n/a | Audit Log:           | n/a |
| Semisync Replication Plugin: | n/a | Firewall:            | n/a |
| SSL Availability:            | Off | Firewall Trace:      | n/a |

**Server Directories**

|                         |                    |
|-------------------------|--------------------|
| Base Directory:         | n/a                |
| Data Directory:         | n/a                |
| Disk Space in Data Dir: | unable to retrieve |
| Plugins Directory:      | n/a                |
| Tmp Directory:          | n/a                |
| Error Log:              | n/a                |
| General Log:            | On                 |
| Slow Query Log:         | On                 |

**Replica**

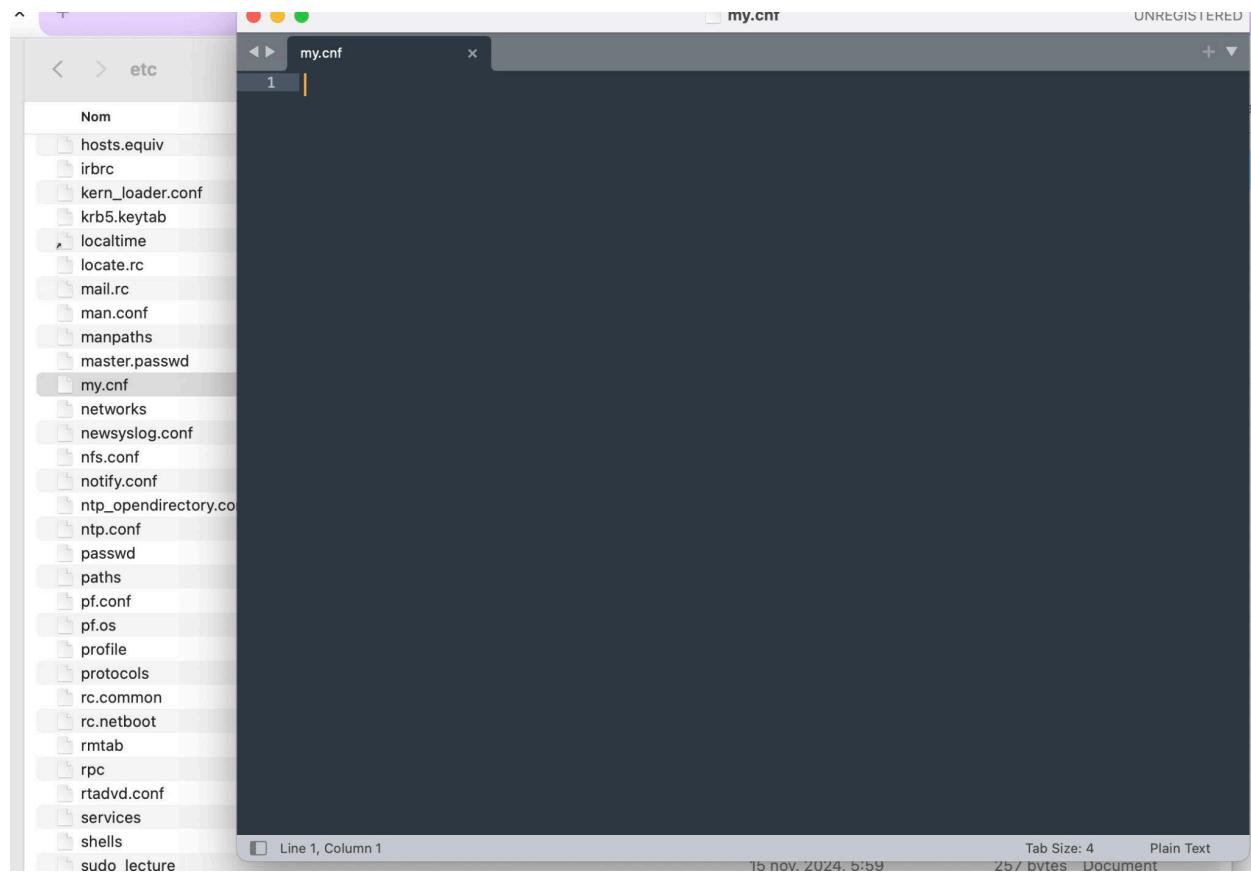
Management support for target host enabled successfully.

Tornem l'arxiu al lloc i ens continua donant error.

Ara ja no pot arrancar el server de MySQL

```
Last login: Thu Dec  5 13:01:39 on console
→ ~ mysql.server stop
Shutting down MySQL
... SUCCESS!
→ ~ mysql.server start --secure-file-priv=''
Starting MySQL
2024-12-05T12:15:18.6NZ mysqld_safe Directory '/Applications/XAMPP/xamppfiles/var/mysql' for UNIX socket file don't exists.
ERROR! The server quit without updating PID file (/opt/homebrew/var/mysql/MacBook-Air-de-Roser.local.pid).
→ ~ mysql.server stop
ERROR! MySQL server PID file could not be found!
→ ~ mysql.server start
Starting MySQL
2024-12-05T12:23:22.6NZ mysqld_safe Directory '/Applications/XAMPP/xamppfiles/var/mysql' for UNIX socket file don't exists.
ERROR! The server quit without updating PID file (/opt/homebrew/var/mysql/MacBook-Air-de-Roser.local.pid).
→ ~
```

Borrem tot l'arxiu de config i el deixem buit



Reiniciem l'ordinador i tornem a conectar, ara sembla que es connecta.  
Pujarem els arxius manualment amb el Wizard com hem acordat amb Alana.

Local instance 3306 - Warning - not supported

Administration Schemas Query 1 Sprint 4\* transactions

SCHEMAS Filter objects modelat\_sql\_roser

Tables companies credit\_cards trans users Views Stored Functions sakila transactions world

Select Rows Table Inspector

Copy to Clipboard Table Data Export Wizard Table Data Import Wizard

Send to SQL Editor

Create Table... Create Table Like... Alter Table... Table Maintenance...

Drop Table... Truncate Table... Search Table Data...

Refresh All

Object Info

Table: transaction

Columns:

|             | Type          |
|-------------|---------------|
| <b>id</b>   |               |
| card_id     |               |
| business_id |               |
| timestamp   |               |
| amount      | decimal(10,2) |
| declined    | tinyint(1)    |
| product_ids | varchar(255)  |
| user_id     | varchar(15)   |
| lat         | float         |
| longitude   | float         |

Time Action Response Duration / Fetch Time

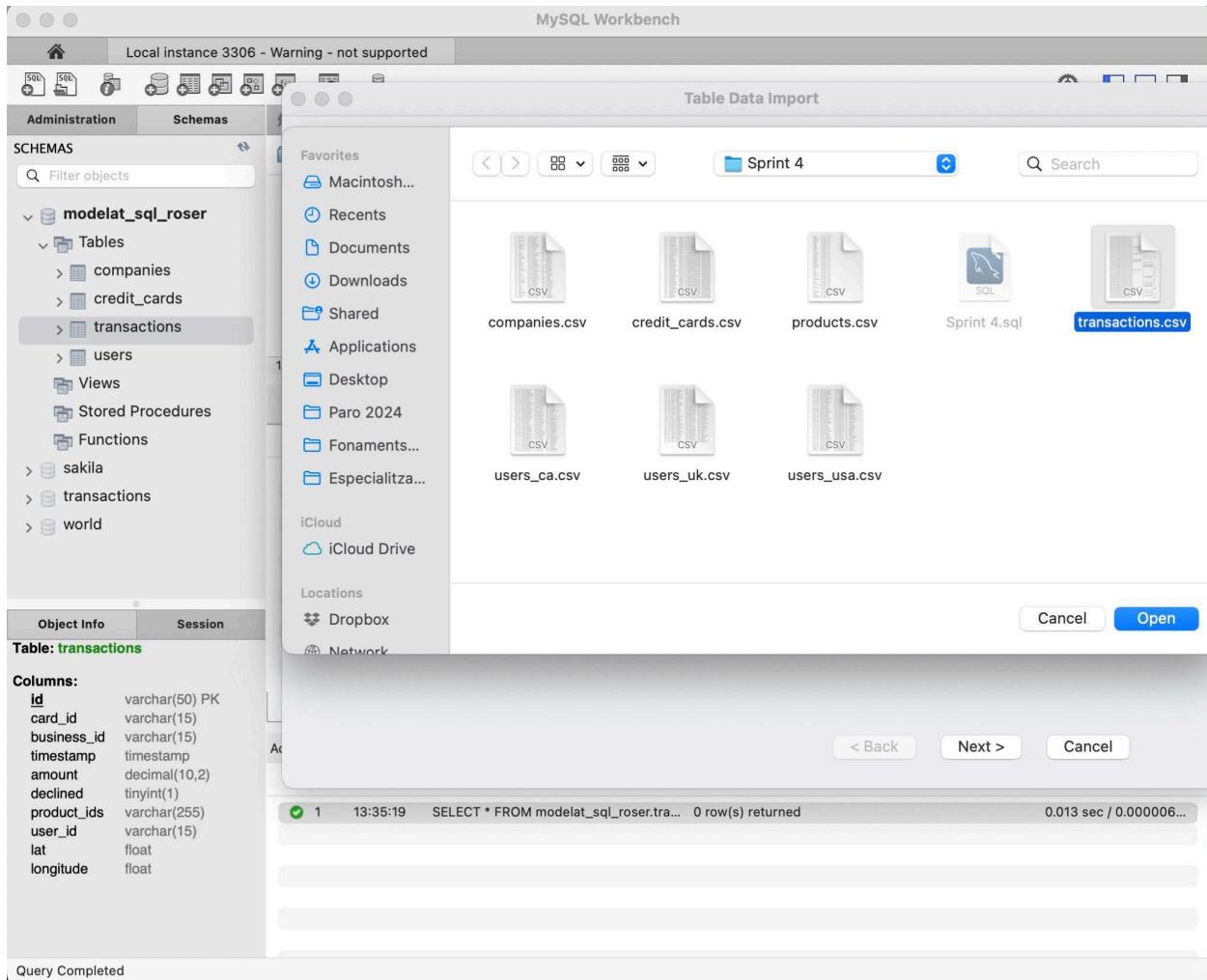
1 13:35:19 SELECT \* FROM modelat\_sql\_roser.transactions 0 row(s) returned 0.013 sec / 0.000006...

Query Completed

Result Grid

Form Editor

Field Types



I mirem que està bé

MySQL Workbench

Local Instance 3306 - Warning - not supported

Administration Schemas

SCHEMAS

- modelat\_sql\_rosler**
  - Tables
    - companies
    - credit\_cards
    - transactions**
    - users
  - Views
  - Stored Procedures
  - Functions
- sakila
- transactions
- world

Object Info Session

Table: transactions

Columns:

| id                                     | varchar(50) PK |        |                     |        |   |                 |     |          |          |
|--|----------------|--------|---------------------|--------|---|-----------------|-----|----------|----------|
| card_id                                | varchar(15)    |        |                     |        |   |                 |     |          |          |
| business_id                            | varchar(15)    |        |                     |        |   |                 |     |          |          |
| timestamp                              | timestamp      |        |                     |        |   |                 |     |          |          |
| amount                                 | decimal(10,2)  |        |                     |        |   |                 |     |          |          |
| declined                               | tinyint(1)     |        |                     |        |   |                 |     |          |          |
| product_ids                            | varchar(255)   |        |                     |        |   |                 |     |          |          |
| user_id                                | varchar(15)    |        |                     |        |   |                 |     |          |          |
| lat                                    | float          |        |                     |        |   |                 |     |          |          |
| longitude                              | float          |        |                     |        |   |                 |     |          |          |
| 02C6201E-D90A-1859-B4EE-88D2986D3B02   | CcU-2938       | b-2362 | 2021-08-28 23:42:24 | 466.92 | 0 | 71, 1, 19       | 92  | 81.9185  | -12.5276 |
| 0466A42E-47CF-8D24-FD01-C0B689713128   | CcU-4219       | b-2302 | 2021-07-26 07:29:18 | 49.53  | 0 | 47, 97, 43      | 170 | -43.9695 | -117.525 |
| 063FB497-99EC-66FB-29F7-5726D1764A5    | CcU-2987       | b-2250 | 2022-01-06 21:25:27 | 92.61  | 0 | 47, 67, 31, 5   | 275 | -81.2227 | -129.05  |
| 066B294C-CDB9-A883-76BC-2E4C4AF8C8AE   | CcU-3743       | b-2618 | 2022-01-26 02:07:14 | 394.18 | 0 | 89, 83, 79      | 265 | -34.3593 | -100.556 |
| 06D09AA5-9B42-0684-DDD-E539FEBA99      | CcU-2959       | b-2346 | 2021-10-26 23:00:01 | 279.93 | 0 | 43, 31          | 92  | 33.7381  | 158.298  |
| 077A6D94-31A3-7E87-65B9-00A902AD109F   | CcU-3225       | b-2386 | 2021-06-28 21:11:42 | 340.87 | 1 | 47, 23          | 272 | 38.8342  | 92.1905  |
| 09DE92CE-6F27-2BB7-13B5-39385B293B8E2  | CcU-3071       | b-2298 | 2021-05-11 20:40:06 | 303.05 | 1 | 67, 7           | 275 | 71.1706  | 10.5757  |
| 0A476ED9-0C19-1962-F87B-23563924B539   | CcU-4382       | b-2302 | 2022-02-26 20:33:54 | 430.49 | 0 | 29, 41, 11      | 221 | -56.4901 | 114.801  |
| 0BE8B0B7-90D6-1707-CE4B-9DC7E71914B5   | CcU-3141       | b-2338 | 2022-03-04 14:54:35 | 288.81 | 1 | 19, 41, 29, 3   | 272 | 23.3264  | -13.8037 |
| 0C7C3A33-9947-3BC1-8460-7E3D0D17598    | CcU-3392       | b-2434 | 2021-04-10 20:58:41 | 103.44 | 1 | 89, 31          | 272 | 63.3615  | -68.6667 |
| 0CE957A6-CCAA-2B7A-6839-AAB1B324853    | CcU-3435       | b-2506 | 2022-02-02 07:29:36 | 428.69 | 1 | 83, 43, 73, ... | 269 | -69.3537 | -10.26   |
| 0DD2E5608-5C9E-D1B3-4999-899F43AD735A  | CcU-2959       | b-2234 | 2021-04-17 05:30:17 | 252.47 | 1 | 7, 47, 17       | 275 | 9.68811  | 130.282  |
| 1017AA59-3D5F-7AAC-1992-D151ABD1FA0A   | CcU-3701       | b-2618 | 2021-11-01 01:02:11 | 447.11 | 0 | 37, 13          | 267 | 4.27645  | -101.554 |
| 1026DA24-8929-31F1-8250-D7BA0B5C13D2   | CcU-2992       | b-2346 | 2021-12-07 09:30:38 | 465.31 | 0 | 89, 11, 97, 79  | 92  | 32.0646  | -140.147 |
| 108EB1D1-5B23-A76C-55EF-C568E49A05D0   | CcU-2934       | b-2222 | 2021-07-07 17:43:16 | 293.57 | 0 | 59              | 275 | 83.7830  | -178.86  |
| 10A9B07A-810C-76E8-4D15-12C66C128037   | CcU-3155       | b-2346 | 2021-05-16 21:00:28 | 27.85  | 1 | 43, 83          | 272 | -32.0556 | -76.7281 |
| 11A1BED097-EA12-1B9A-96F0-A93ACC172179 | CcU-3981       | b-2362 | 2021-07-14 20:55:48 | 157.20 | 0 | 29              | 68  | -78.8402 | 8.76182  |
| 122DC333-E19F-D629-DCD8-8C54C1F1EB9A   | CcU-4366       | b-2302 | 2021-06-09 06:04:14 | 172.01 | 0 | 1, 67, 19       | 221 | 29.6372  | -166.173 |
| 133382CC-DE56-8604-2D11-3DC5449E0A5F   | CcU-3407       | b-2490 | 2021-04-02 05:17:46 | 348.88 | 1 | 29              | 271 | 62.3246  | 101.017  |
| 135267BA-2E7D-957C-C42C-6450A2B3ED54   | CcU-4520       | b-2302 | 2021-12-29 20:38:23 | 17.97  | 0 | 11, 71          | 210 | 20.6724  | 14.9732  |
| 13DCC69F-EA07-E52B-8309-D474C6281E80   | CcU-3197       | b-2370 | 2021-06-02 04:10:57 | 50.09  | 1 | 97, 29, 23      | 272 | 32.3746  | 165.016  |
| 13FB8B312-B283-7976-D447-14DE5986218A  | CcU-3392       | b-2466 | 2021-10-30 13:42:44 | 80.58  | 1 | 11, 29, 43, 79  | 272 | 20.2369  | -117.885 |
| 1479B83D-B7BA-C7B8-4CE3-8D7C2DE85AB9   | CcU-2994       | b-2326 | 2021-08-09 00:58:07 | 309.45 | 0 | 89, 41, 59      | 133 | 66.2672  | 172.399  |
| 14CAE5B5-8FB1-3E4A-4C85-0EA416753A4    | CcU-4849       | b-2302 | 2021-12-31 00:29:42 | 388.04 | 0 | 2, 13, 53, 31   | 189 | -53.6202 | 93.0533  |
| 1517E8A8-8844-A7C9-6691-692C27D0DC2C   | CcU-3505       | b-2546 | 2021-03-23 01:58:34 | 259.51 | 1 | 83, 43          | 267 | -70.0484 | -44.5029 |
| 152588C2-029D-D684-4B66-91EDF938EBFF   | CcU-2994       | b-2326 | 2021-07-05 03:10:00 | 395.43 | 0 | 23, 97          | 126 | -67.0189 | -141.672 |
| 155C0500-77D2-000C-3C2D-045020CEP200   | CcU-0950       | b-0940 | 2021-04-09 02:05:16 | 104.16 | 0 | 5,              | 20  | 50.0729  | -170.204 |

Action Output

| Time       | Action  | Response            | Duration / Fetch Time   |
|------------|---|---------------------|-------------------------|
| 8 13:37:24 | SELECT * FROM modelat_sql_rosler.transactions | 587 row(s) returned | 0.0012 sec / 0.00067... |

Query Completed

## Importem el de credit\_cards

Local instance 3306 - Warning - not supported

Administration Schemas

**Select Destination**

Select destination table and additional options.

Use existing table: modelat\_sql\_roser.credit\_cards

Create new table: modelat\_sql\_roser . credit\_cards

Truncate table before import

Table: credit\_cards

Columns:

| <b>id</b>     | varchar(15) PK |  |
|---------------|----------------|--|
| user_id       | varchar(15)    |  |
| iban          | varchar(50)    |  |
| pan           | varchar(50)    |  |
| pin           | varchar(4)     |  |
| cvv           | int            |  |
| track1        | varchar(100)   |  |
| track2        | varchar(100)   |  |
| expiring_date | varchar(20)    |  |

Action Output

|   | Time     | Action                                       | Response            | Duration / Fetch Time   |
|---|----------|--|---------------------|-------------------------|
| 8 | 13:37:24 | SELECT * FROM modelat_sql_roser.transactions | 587 row(s) returned | 0.0012 sec / 0.00067... |

Query Completed

Local instance 3306 - Warning - not supported

Administration Schemas

**Configure Import Settings**

Detected file format: csv

Encoding: utf-8

Source Column Dest Column

| Source Column                                     | Dest Column                                       |
|---|---|
| <input checked="" type="checkbox"/> id            | <input checked="" type="checkbox"/> id            |
| <input checked="" type="checkbox"/> user_id       | <input checked="" type="checkbox"/> user_id       |
| <input checked="" type="checkbox"/> iban          | <input checked="" type="checkbox"/> iban          |
| <input checked="" type="checkbox"/> pan           | <input checked="" type="checkbox"/> pan           |
| <input checked="" type="checkbox"/> pin           | <input checked="" type="checkbox"/> pin           |
| <input checked="" type="checkbox"/> cvv           | <input checked="" type="checkbox"/> cvv           |
| <input checked="" type="checkbox"/> track1        | <input checked="" type="checkbox"/> track1        |
| <input checked="" type="checkbox"/> track2        | <input checked="" type="checkbox"/> track2        |
| <input checked="" type="checkbox"/> expiring_date | <input checked="" type="checkbox"/> expiring_date |

Table: credit\_cards

Columns:

| <b>id</b>     | varchar(15) PK |  |  |  |  |  |  |  |  |
|---------------|----------------|--|--|--|--|--|--|--|--|
| user_id       | varchar(15)    |  |  |  |  |  |  |  |  |
| iban          | varchar(50)    |  |  |  |  |  |  |  |  |
| pan           | varchar(50)    |  |  |  |  |  |  |  |  |
| pin           | varchar(4)     |  |  |  |  |  |  |  |  |
| cvv           | int            |  |  |  |  |  |  |  |  |
| track1        | varchar(100)   |  |  |  |  |  |  |  |  |
| track2        | varchar(100)   |  |  |  |  |  |  |  |  |
| expiring_date | varchar(20)    |  |  |  |  |  |  |  |  |

Action Output

|   | Time     | Action                                       | Response            | Duration / Fetch Time   |
|---|----------|--|---------------------|-------------------------|
| 8 | 13:37:24 | SELECT * FROM modelat_sql_roser.transactions | 587 row(s) returned | 0.0012 sec / 0.00067... |

Query Completed

The screenshot shows the MySQL Workbench interface. The title bar reads "Local instance 3306 - Warning - not supported". The left sidebar shows the database schema with the "modelat\_sql\_roser" database selected, containing tables like "companies", "credit\_cards", "transactions", and "users". The main panel displays the "Import Results" for a CSV file named "credit\_cards.csv" imported from "/Users/roserblasco/Desktop/Especialització/Sprint 4/credit\_cards.csv". The results show the file was imported in 0.285 seconds, the table "modelat\_sql\_roser.credit\_cards" was used, and 275 records were imported.

File /Users/roserblasco/Desktop/Especialització/Sprint 4/credit\_cards.csv was imported in 0.285 s

Table modelat\_sql\_roser.credit\_cards has been used

275 records imported

## Ara amb la taula companies

MySQL Workbench

Local instance 3306 - Warning - not supported

Administration Schemas

SCHEMAS modelat\_sql\_roser

Tables: companies, credit\_cards, transactions, users

Views, Stored Procedures, Functions, sakila, transactions, world

Configure Import Settings

Detected file format: csv

Encoding: utf-8

Source Column Dest Column

- company\_id id
- company\_name company\_name
- phone phone
- email email
- country country
- website website

| company_id | company_n... | phone       | email        | country      | website                        |
|------------|--------------|-------------|--------------|--------------|--------------------------------|
| b-2222     | Ac Ferme...  | 06 85 56... | donec.po...  | Germany      | https://instagram.com/site     |
| b-2226     | Magna A...   | 04 14 44... | risus.don... | Australia    | https://whatsapp.com/group/9   |
| b-2230     | Fusce Co...  | 08 14 97... | risus@pr...  | United St... | https://pinterest.com/sub/cars |

< Back Next > Cancel

MySQL Workbench

Local instance 3306 - Warning - not supported

Administration Schemas

SCHEMAS modelat\_sql\_roser

Tables: companies, credit\_cards, transactions, users

Views, Stored Procedures, Functions, sakila

Table Data Import

Import Results

File /Users/roserblasco/Desktop/Especialització/Sprint 4/companies.csv was imported in 0.113 s

Table modelat\_sql\_roser.companies has been used

100 records imported

Local instance 3306 - Warning - not supported

Administration Schemas Query 1 Sprint 4\* transactions

Filter objects

SCHEMAS modelat\_sql\_roser

Tables companies credit\_cards transactions users

Views Stored Procedures Functions

sakila transactions world

Object Info Session

Table: companies

Columns:

|        | <b>id</b>                    | <b>company_name</b> | <b>phone</b>                       | <b>email</b>   | <b>country</b>  | <b>website</b> |
|--------|------------------------------|---------------------|------------------------------------|----------------|---|----------------|
| b-2222 | Ac Fermentum Incorporated    | 06 85 56 52 33      | donec.porttitor.tellus@yahoo.net   | Germany        | <a href="https://instagram.com/site">https://instagram.com/site</a>         |                |
| b-2226 | Magna A Neque Industries     | 04 14 44 64 62      | risus.donec.nibh@icloud.org        | Australia      | <a href="https://whatsapp.com/group/9">https://whatsapp.com/group/9</a>     |                |
| b-2230 | Fusce Corp.                  | 08 14 97 58 85      | risus.donec.nibh@icloud.org        | United States  | <a href="https://pinterest.com/sub/cars">https://pinterest.com/sub/cars</a> |                |
| b-2234 | Convallis In Incorporated    | 06 66 57 29 50      | mauris.ut@aol.co.uk                | Germany        | <a href="https://cnm.com/user/110">https://cnm.com/user/110</a>             |                |
| b-2238 | Ante Iaculis Nec Foundation  | 08 23 04 99 53      | sed.dictum.prin@outlook.ca         | New Zealand    | <a href="https://netflix.com/settings">https://netflix.com/settings</a>     |                |
| b-2242 | Donec Ltd                    | 01 25 51 37 37      | at.laculis@hotmail.co.uk           | Norway         | <a href="https://nytimes.com/user/110">https://nytimes.com/user/110</a>     |                |
| b-2246 | Sed Nunc Ltd                 | 02 62 64 73 48      | nibh@yahoo.org                     | United Kingdom | <a href="https://crn.com/">https://crn.com/</a>                             |                |
| b-2250 | Amet Nulla Donec Corporation | 07 15 25 14 74      | mattis.integer.eu@protonmail.net   | Italy          | <a href="https://netflix.com/sub/cars">https://netflix.com/sub/cars</a>     |                |
| b-2254 | Nascetur Ridiculus Mus Inc.  | 06 26 87 61 80      | suspendisse.dui@icloud.net         | United States  | <a href="https://ebay.com/sub">https://ebay.com/sub</a>                     |                |
| b-2258 | Vestibulum Lorem PC          | 02 02 87 33 40      | aenean.massa.integer@aol.net       | Belgium        | <a href="https://pinterest.com/sub/cars">https://pinterest.com/sub/cars</a> |                |
| b-2262 | Gravida Sagittis LLP         | 03 81 28 39 97      | turpis.vitae@google.ca             | Sweden         | <a href="https://naver.com/site">https://naver.com/site</a>                 |                |
| b-2266 | Mus Aenean Eget Foundation   | 06 25 15 52 43      | mi.duis@hotmail.net                | Sweden         | <a href="https://instagram.com/group/9">https://instagram.com/group/9</a>   |                |
| b-2270 | Dis Parturient Institute     | 05 36 29 78 74      | purus@protonmail.org               | Ireland        | <a href="https://google.com/one">https://google.com/one</a>                 |                |
| b-2274 | Sed LLC                      | 01 63 16 26 52      | at@outlook.com                     | Belgium        | <a href="https://reddit.com/fr">https://reddit.com/fr</a>                   |                |
| b-2278 | Arcu LLP                     | 06 46 04 41 45      | dui@aol.ca                         | Norway         | <a href="https://yahoo.com/sub">https://yahoo.com/sub</a>                   |                |
| b-2282 | Pretium Neque Corp.          | 07 77 49 55 28      | eleifend.nec.malesuada@proto...    | Australia      | <a href="https://netflix.com/sub">https://netflix.com/sub</a>               |                |
| b-2286 | Fringilla LLC                | 08 29 15 93 57      | gravida@protonmail.co...           | New Zealand    | <a href="https://reddit.com/user/110">https://reddit.com/user/110</a>       |                |
| b-2290 | Quisque Libero LLC           | 01 45 46 71 11      | sapien.molestie.orci@hotmail.c...  | China          | <a href="https://baidu.com/group/9">https://baidu.com/group/9</a>           |                |
| b-2294 | Auctor Mauris Vel LLP        | 08 09 22 74 14      | necl.tempus@icloud.co.uk           | United States  | <a href="https://instagram.com/fr">https://instagram.com/fr</a>             |                |
| b-2298 | Ellit Etiam Lacus Associates | 07 69 71 17 45      | non@outlook.com                    | Germany        | <a href="https://wikipedia.org/en-us">https://wikipedia.org/en-us</a>       |                |
| b-2302 | Nunc Interdum Incorporated   | 05 18 15 48 13      | ut@icloud.co.uk                    | Germany        | <a href="https://baidu.com/sub/cars">https://baidu.com/sub/cars</a>         |                |
| b-2306 | Augue Foundation             | 06 88 43 15 63      | mauris@yahoo.com                   | United Kingdom | <a href="https://whatsapp.com/site">https://whatsapp.com/site</a>           |                |
| b-2310 | Non Magna LLC                | 06 71 73 13 17      | nisil.quisque.fringilla@hotmail.ca | Belgium        | <a href="https://reddit.com/fr">https://reddit.com/fr</a>                   |                |
| b-2314 | A Institute                  | 03 34 91 68 74      | metus.aliquam@google.edu           | Italy          | <a href="https://ebay.com/settings">https://ebay.com/settings</a>           |                |
| b-2318 | Quam A Felis Industries      | 04 87 10 27 16      | proin.vel@icloud.edu               | Italy          | <a href="https://netflix.com/group/9">https://netflix.com/group/9</a>       |                |
| b-2322 | Integer Mollis Corp.         | 03 12 20 45 24      | eu.eros@protonmail.ca              | Italy          | <a href="https://netflix.com/group/9">https://netflix.com/group/9</a>       |                |

companies 4

Action Output

|    | Time     | Action                                    | Response            | Duration / Fetch Time  |
|----|----------|---|---------------------|------------------------|
| 22 | 13:42:49 | SELECT * FROM modelat_sql_roser.companies | 100 row(s) returned | 0.00094 sec / 0.000... |

Query Completed

Ara users.

Local instance 3306 - Warning - not supported

### Table Data Import

Configure Import Settings

Detected file format: csv

Encoding: utf-8

| Source Column                                   | Dest Column                                     |
|---|---|
| <input checked="" type="checkbox"/> id          | <input checked="" type="checkbox"/> id          |
| <input checked="" type="checkbox"/> name        | <input checked="" type="checkbox"/> name        |
| <input checked="" type="checkbox"/> surname     | <input checked="" type="checkbox"/> surname     |
| <input checked="" type="checkbox"/> phone       | <input checked="" type="checkbox"/> phone       |
| <input checked="" type="checkbox"/> email       | <input checked="" type="checkbox"/> email       |
| <input checked="" type="checkbox"/> birth_date  | <input checked="" type="checkbox"/> birth_date  |
| <input checked="" type="checkbox"/> country     | <input checked="" type="checkbox"/> country     |
| <input checked="" type="checkbox"/> city        | <input checked="" type="checkbox"/> city        |
| <input checked="" type="checkbox"/> postal_code | <input checked="" type="checkbox"/> postal_code |
| <input checked="" type="checkbox"/> address     | <input checked="" type="checkbox"/> address     |

Table: users

Columns:

| <input checked="" type="checkbox"/> | <b>id</b>          | varchar(15)  |  |  |  |  |  |  |  |  |
|-------------------------------------|--------------------|--------------|--|--|--|--|--|--|--|--|
|                                     | <b>name</b>        | varchar(100) |  |  |  |  |  |  |  |  |
|                                     | <b>surname</b>     | varchar(100) |  |  |  |  |  |  |  |  |
|                                     | <b>phone</b>       | varchar(50)  |  |  |  |  |  |  |  |  |
|                                     | <b>email</b>       | varchar(100) |  |  |  |  |  |  |  |  |
|                                     | <b>birth_date</b>  | varchar(100) |  |  |  |  |  |  |  |  |
|                                     | <b>country</b>     | varchar(150) |  |  |  |  |  |  |  |  |
|                                     | <b>city</b>        | varchar(100) |  |  |  |  |  |  |  |  |
|                                     | <b>postal_code</b> | varchar(100) |  |  |  |  |  |  |  |  |
|                                     | <b>address</b>     | varchar(255) |  |  |  |  |  |  |  |  |

Object Info      Session

Table: users

Columns:

| 1 | Zeus    | Gamble    | 1-282-58...  | interdum...    | Nov 17, 1... | United St... | Lowell     | 73544 | 348-7818... |  |
|---|---------|-----------|--------------|----------------|--------------|--------------|------------|-------|-------------|--|
| 2 | Garrett | Mcconnell | (718) 257... | integer.vit... | Aug 23, 1... | United St... | Des Moines | 59464 | 903 Sit Ave |  |
| 3 | Ciaran  | Harrison  | (522) 59...  | interdum...    | Apr 29, 1... | United St... | Columbus   | 56518 | 736-206...  |  |

< Back      Next >      Cancel

SQL script saved to '/Users/roserblasco/Desktop/Especialització/Sprint 4/sprint 4.sql'

Local instance 3306 - Warning - not supported

### Table Data Import

Import Results

File /Users/roserblasco/Desktop/Especialització/Sprint 4/users\_usa.csv was imported in 0.180 s

Table modelat\_sql\_roser.users has been used

150 records imported

El que passa és que m'està agafant el id de usuari no com a número sino com a paraula, i els ordena per ordre alfabètic no per el número

Screenshot of MySQL Workbench showing the 'users' table from the 'modelat\_sql\_roser' schema. The table has columns: id, name, surname, phone, email, birth\_date, country, city, postal\_code, and address.

|     | id      | name     | surname        | phone | email                        | birth_date   | country       | city        | postal_code | address                       |
|-----|---------|----------|----------------|-------|------------------------------|--------------|---------------|-------------|-------------|-------------------------------|
| 1   | Zeus    | Gamble   | 1-282-581-0551 |       | interdum.enim@protonmail.edu | Nov 17, 1985 | United States | Lowell      | 73544       | 348-7818 Sagittis St.         |
| 10  | Robert  | McCarthy | (324) 746-6771 |       | fermentum@protonmail.com     | Apr 30, 1984 | United States | Eugene      | 85526       | P.O. Box 773, 3594 Ornare St. |
| 100 | Melodie | McLean   | 1-677-221-7152 |       | riscus.varius@google.ca      | Sep 15, 1989 | United States | College     | 11838       | Ap #644-8492 Sagittis St.     |
| 101 | Sarah   | Beck     | (358) 691-4345 |       | vitae.risus@aol.co.uk        | Apr 9, 1983  | United States | Great Falls | 67129       | 665-9047 In, Rd.              |

Aquest ID d'usuari, en transaccions em fa el mateix

Screenshot of MySQL Workbench showing the 'transactions' table from the 'modelat\_sql\_roser' schema. The table has columns: id, card\_id, business\_id, timestamp, amount, declined, product\_ids, user\_id, lat, and longitude.

|    | id   | card_id  | business_id | timestamp           | amount | declined | product_ids   | user_id | lat        | longitude |
|----|--|----------|-------------|---------------------|--------|----------|---------------|---------|------------|-----------|
| 1  | 18B1AD88-F155-45B7-D2EA-4738A074D5D6         | CcU-3981 | b-2362      | 2021-11-26 20:26:07 | 268.48 | 0        | 7             | 65      | 36.2908    | -128.821  |
| 2  | E3E941D3-0866-2E6F-85D7-A2P21E79A215         | CcU-3981 | b-2362      | 2021-09-23 10:02:57 | 471.47 | 0        | 7, 31, 29     | 64      | -25.447    | -21.2166  |
| 3  | DAT7A5D76-448A-678E-4836-465C88963F4E        | CcU-4093 | b-2362      | 2022-02-19 17:58:33 | 82.43  | 0        | 63            | 63      | 45.5819    | 94.5767   |
| 4  | 44D0DBB1-975E-86A4-75DA-BDAFED65F688         | CcU-4093 | b-2362      | 2021-07-20 08:47:44 | 133.39 | 0        | 29            | 62      | 34.5967    | 161.593   |
| 5  | A2CD7827-4C8D-9E71-8549-262833307BF1         | CcU-4093 | b-2362      | 2021-05-25 14:06:45 | 460.82 | 0        | 31, 97, 73    | 61      | -4.33876   | 6.89324   |
| 6  | 8BC99098-6D44-B7DB-D363-D468A2DF3A25         | CcU-4093 | b-2362      | 2022-02-16 21:45:08 | 156.23 | 0        | 37, 67, 23... | 60      | -0.1950... | 22.3898   |
| 7  | 086BA79-99EC-66FB-29F7-2572BD176A45          | CcU-2987 | b-2250      | 2022-01-06 21:25:27 | 92.61  | 0        | 47, 67, 31, 5 | 275     | -81.2227   | -129.05   |
| 8  | 09DE92CE-6F27-2B87-1B35-9385B2B3B8E2         | CcU-3071 | b-2298      | 2021-05-11 20:40:00 | 303.05 | 1        | 67, 7         | 275     | 71.1706    | 10.5757   |
| 9  | 0D2DE608-5C9E-D1B3-4999-B9AB-377A-4C78E72160 | CcU-2959 | b-2234      | 2021-04-17 05:30:17 | 252.47 | 1        | 7, 47, 17     | 275     | 9.68811    | 130.282   |
| 10 | 10881D1D-5B23-A763-55EF-C568E49A05DD         | CcU-2938 | b-2222      | 2021-07-07 17:43:16 | 293.57 | 0        | 59            | 275     | 83.7839    | -178.86   |
| 11 | 1788C881-EE67-9BA9-377A-4C78E72160           | CcU-3038 | b-2278      | 2022-01-16 08:19:44 | 486.83 | 0        | 7, 2, 79      | 275     | 55.9135    | 110.555   |
| 12 | 29B2BE1C-EC14-A760-0475-871477849D6A         | CcU-2980 | b-2246      | 2021-08-10 08:14:49 | 383.73 | 0        | 59, 13, 23    | 275     | -41.0496   | 161.685   |
| 13 | 2C7D9B65-2629-CAB1-5010-77BD1A74DA6          | CcU-3050 | b-2286      | 2021-07-09 22:54:31 | 258.18 | 0        | 53            | 275     | -15.6688   | -70.1488  |
| 14 | 2E5A9879-F2B1-A5B2-BDC8-EDEAFD054661         | CcU-3061 | b-2294      | 2021-09-20 05:48:42 | 108.20 | 1        | 59, 71        | 275     | -76.0786   | -8.29851  |
| 15 | 2F3B6A86-147D-EB0B-FEBD-9A4E2EFA0DBD5        | CcU-2966 | b-2238      | 2021-10-18 06:12:03 | 33.81  | 0        | 47, 37, 11, 1 | 275     | -16.6025   |           |
| 16 | 35DE2442-5AEB-9C73-E8D-EBC31DE8AC4DE         | CcU-3043 | b-2282      | 2022-02-12 11:00:00 | 116.74 | 1        | 2, 1, 71      | 275     | 57.9247    | 145.293   |
| 17 | 37C2603F-412A-E0E9-DEB7-BE2982B5CE0D         | CcU-3015 | b-2266      | 2022-01-02 16:59:28 | 51.76  | 1        | 13, 31        | 275     | 17.7552    | -147.16   |
| 18 | 4343494E-CEB0-3D68-A4D4-FEB7718A1ACE         | CcU-3092 | b-2310      | 2021-05-03 22:37:23 | 458.74 | 0        | 67            | 275     | -20.4859   | 150.87    |
| 19 | 45119B5D-1D54-E523-3C41-3EE30B21A04D         | CcU-3028 | b-2274      | 2022-02-13 16:33:50 | 33.34  | 1        | 59, 61        | 275     | -55.0394   | -149.846  |
| 20 | 4832166E-E11C-BBC3-41DB-B8704B8687A3         | CcU-3028 | b-2274      | 2022-01-18 16:12:47 | 146.66 | 0        | 41, 83        | 275     | -72.4206   | -168.18   |
| 21 | 4B3F0B5-1547-801-E5B0-44EDB2F62210           | CcU-3043 | b-2282      | 2021-12-04 23:00:20 | 63.12  | 0        | 83            | 275     | 48.9973    | -50.5498  |
| 22 | 52B1830C-D954-EB3D-4A72-7301C808F4           | CcU-2973 | b-2242      | 2021-07-31 23:03:21 | 346.61 | 1        | 53, 59, 5, 41 | 275     | -55.8151   | -139.586  |
| 23 | 5B0EFE86-B8A1-EFAA-5EE1-27E7DC8F54A4         | CcU-2973 | b-2242      | 2022-01-06 01:44:48 | 42.82  | 0        | 23, 19, 71    | 275     | -64.1136   | 85.2491   |
| 24 | 632B8EE9-4725-E15C-7FC4-5B5D7E5CB029         | CcU-3078 | b-2302      | 2021-08-27 22:13:25 | 203.23 | 0        | 89, 3         | 275     | 45.8951    | -58.707   |
| 25 | 66B35B95-C39C-684B-7BCD-C45E2C7CD4E          | CcU-3022 | b-2270      | 2022-01-31 11:33:27 | 257.04 | 1        | 41, 47, 13... | 275     | -82.7326   | 149.647   |
| 26 | 71983A22-79E9-4B43-60EB-B935637FFAA4         | CcU-3057 | b-2290      | 2022-01-10 13:04:11 | 155.44 | 0        | 7, 3, 17      | 275     | -80.9534   | 52.5999   |

## Canviem la columna a INT

The screenshot shows the MySQL Workbench interface. The left sidebar displays the schema structure under 'modelat\_sql\_roser'. The 'Tables' section contains 'companies', 'credit\_cards', 'transactions', and 'users'. The 'Columns' node under 'users' is selected. The main pane shows a query editor with the following SQL code:

```
1 • ALTER TABLE users
2   MODIFY COLUMN id INT;
```

The status bar at the bottom indicates 'Query Completed'.

Below the query editor, the 'Object Info' tab is selected, showing details for the 'users' table. The 'Columns' section lists the following fields:

| Column      | Type           |
|-------------|----------------|
| <b>id</b>   | varchar(15) PK |
| name        | varchar(100)   |
| surname     | varchar(100)   |
| phone       | varchar(50)    |
| email       | varchar(100)   |
| birth_date  | varchar(100)   |
| country     | varchar(150)   |
| city        | varchar(150)   |
| postal_code | varchar(100)   |
| address     | varchar(255)   |

The 'Session' tab is also visible. At the bottom, the 'Action Output' pane shows the execution results:

| Action                                 | Time     | Response   | Duration / Fetch Time |
|--|----------|--|-----------------------|
| ALTER TABLE users MODIFY COLUMN id INT | 10:33:19 | 150 row(s) affected Records: 150 Duplicates: 0 Warn... 0.039 sec |                       |

I ara si que ens els ordena com toca

Local instance 3306 - Warning - not supported

Administration Schemas Query 1

SCHEMAS Filter objects

modelat\_sql\_roser

Tables

- companies
- credit\_cards
- transactions
- users

Columns

Indexes

Foreign Keys

Triggers

Views

Stored Procedures

Functions

sakila

transactions

world

Object Info Session

Table: users

Columns:

| ID | name     | surname    | phone          | email                               | birth_date   | country       | city         | postal_code | address                       |
|----|----------|------------|----------------|-------------------------------------|--------------|---------------|--------------|-------------|-------------------------------|
| 1  | Zeus     | Gamble     | 1-282-581-0551 | interdum.enim@protonmail.edu        | Nov 17, 1985 | United States | Lowell       | 73544       | 348-7818 Sagittis St.         |
| 2  | Garrett  | Mcconnell  | (718) 257-2412 | integer.vitae.nibh@protonmail.org   | Aug 23, 1992 | United States | Des Moines   | 59464       | 903 Sit Ave                   |
| 3  | Ciaran   | Harrison   | (522) 598-1365 | interdum.feugiat@eol.org            | Apr 29, 1998 | United States | Columbus     | 56518       | 736-2063 Telus St.            |
| 4  | Howard   | Stafford   | 1-411-740-3269 | ornare.egestas@icloud.edu           | Feb 18, 1989 | United States | Kailua       | 77417       | Ap #545-2244 Erat Rd.         |
| 5  | Hayfa    | Pierro     | 1-554-541-2077 | et.malesuada.fames@hotmail.org      | Sep 26, 1998 | United States | Sandy        | 31564       | 341-2821 Ultrices Av.         |
| 6  | Joel     | Tyson      | (718) 288-8020 | gravida.nunc.sed@yahoo.ca           | Oct 15, 1989 | United States | Nashville    | 96838       | 888-2799 Amet Street          |
| 7  | Rafael   | Jimenez    | (817) 689-0478 | eget@outlook.ca                     | Dec 4, 1981  | United States | Hillsboro    | 29874       | 8627 Malesuada Rd.            |
| 8  | Nissim   | Franks     | (692) 157-3469 | egestas.aliquam.fringilla@google.ca | Aug 1, 1993  | United States | Jackson      | 61750       | Ap #251-1144 Integer St.      |
| 9  | Mannix   | Mcclain    | (590) 883-2184 | aliquam.nisi@outlook.com            | Jan 24, 1987 | United States | Richmond     | 35987       | 647-3080 Lacus, St.           |
| 10 | Robert   | McCarthy   | (324) 746-6773 | fermentum@protonmail.com            | Apr 30, 1984 | United States | Eugene       | 85526       | P.O. Box 773, 3594 Ornare St. |
| 11 | Joan     | Baird      | (981) 429-8106 | et@outlook.net                      | Feb 25, 1990 | United States | Lincoln      | 35211       | P.O. Box 687, 8917 Ligula St. |
| 12 | Benedict | Wheeler    | 1-515-824-2855 | tincidunt.donec.vitae@hotmail.co.uk | Aug 6, 1999  | United States | Lewiston     | 92393       | 748-8694 Porttitor Avenue     |
| 13 | Allegra  | Stanton    | 1-927-753-6488 | proin.eget@protonmail.ca            | May 19, 1990 | United States | Kearney      | 14947       | 4457 Ante, Av.                |
| 14 | Sara     | Flynn      | 1-311-646-9333 | integer@outlook.net                 | Dec 27, 1988 | United States | Warren       | 20288       | P.O. Box 865, 4397 Ante St.   |
| 15 | Noelani  | Patrick    | 1-723-488-5894 | sem,magna@google.com                | Sep 17, 1993 | United States | Orlando      | 47987       | 596-5044 Sapient, Street      |
| 16 | Eric     | Roth       | 1-216-549-8253 | lorem,sit@yahoo.net                 | Sep 7, 1988  | United States | Reading      | 96697       | P.O. Box 541, 5137 Non Road   |
| 17 | Bruce    | Gill       | (744) 732-5628 | metus@sol.net                       | Mar 19, 1990 | United States | Davenport    | 43415       | Ap #606-5508 Vitae, Ave       |
| 18 | Russell  | Jimenez    | (657) 779-2438 | orci@outlook.edu                    | Aug 26, 1993 | United States | Hattiesburg  | 75647       | 4095 Quam Rd.                 |
| 19 | Nicholas | Travis     | 1-330-223-9652 | libero.dui@hotmail.com              | Jul 15, 1981 | United States | Jacksonville | 71727       | Ap #459-539 Lectus Avenue     |
| 20 | Kelsey   | Bates      | (653) 724-4754 | ullamcorper.sit@sol.com             | May 6, 1981  | United States | Gulfport     | 50423       | 824-3624 Lacinia St.          |
| 21 | Hai      | Reeves     | (241) 759-9235 | erat,eget@hotmail.edu               | Jul 22, 1987 | United States | Warren       | 85521       | Ap #745-5948 Sollicitudin St. |
| 22 | Allistar | Holmes     | 1-265-523-0812 | donec,tempor.est@protonmail.com     | Nov 5, 1990  | United States | Montpelier   | 85914       | Ap #794-8744 Ante Rd.         |
| 23 | Kelsie   | Bass       | 1-837-832-5631 | consequat@google.ca                 | Apr 2, 1999  | United States | Jefferson... | 97237       | 407-7562 A, Road              |
| 24 | Nolan    | Cash       | (273) 334-3785 | nam@hotmail.com                     | Sep 9, 1994  | United States | Owensboro    | 61256       | 501-2733 Luctus, Rd.          |
| 25 | Wanda    | Campbell   | (702) 823-5528 | sagittis@google.co.uk               | May 31, 1999 | United States | San Jose     | 88665       | Ap #337-8747 Auctor, Ave      |
| 26 | Aquila   | Strickland | 1-246-231-5495 | enim.sit@icloud.com                 | Sep 28, 1982 | United States | Colchester   | 26637       | Ap #260-4612 Massa Road       |

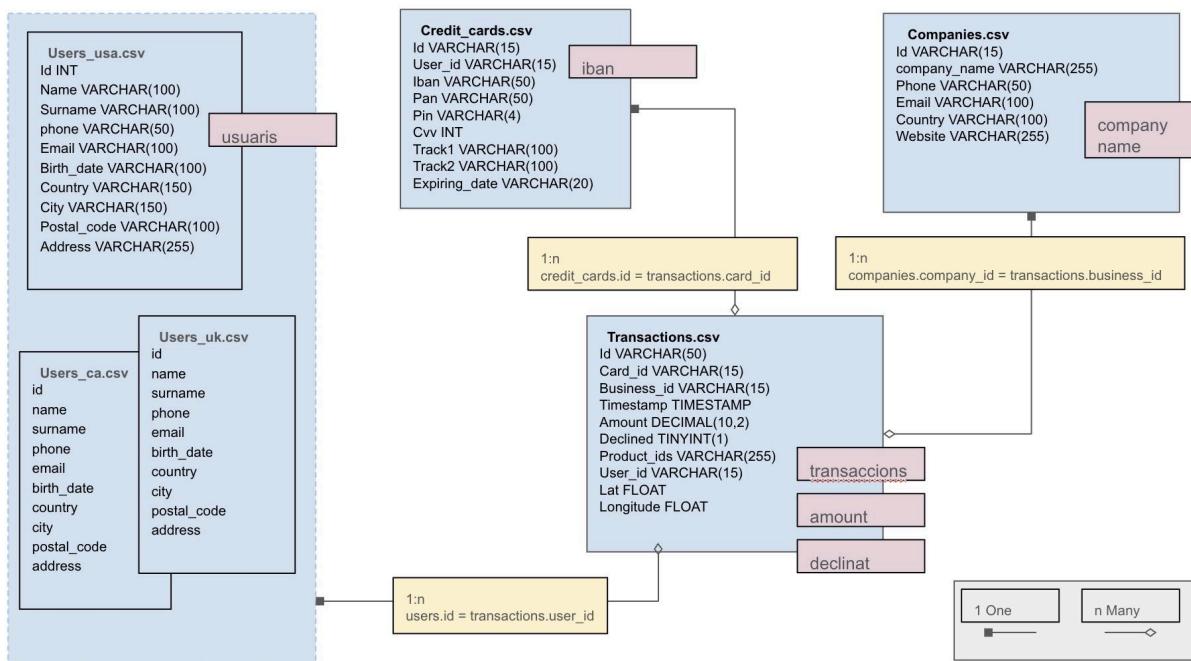
users 3

Action Output

| Time | Action   | Response            | Duration / Fetch Time |                         |
|------|----------|---------------------|-----------------------|-------------------------|
| 6    | 10:34:35 | SELECT * FROM users | 150 row(s) returned   | 0.0012 sec / 0.00013... |

Query Completed

I canviem el diagrama per a reflectir-ho



## Secure\_file\_priv solució

Gàcies a Liss, hem solventat el problema de secure\_file\_priv

The screenshot shows two windows from MySQL Workbench. The top window is a code editor titled 'my.cnf' containing the following configuration:

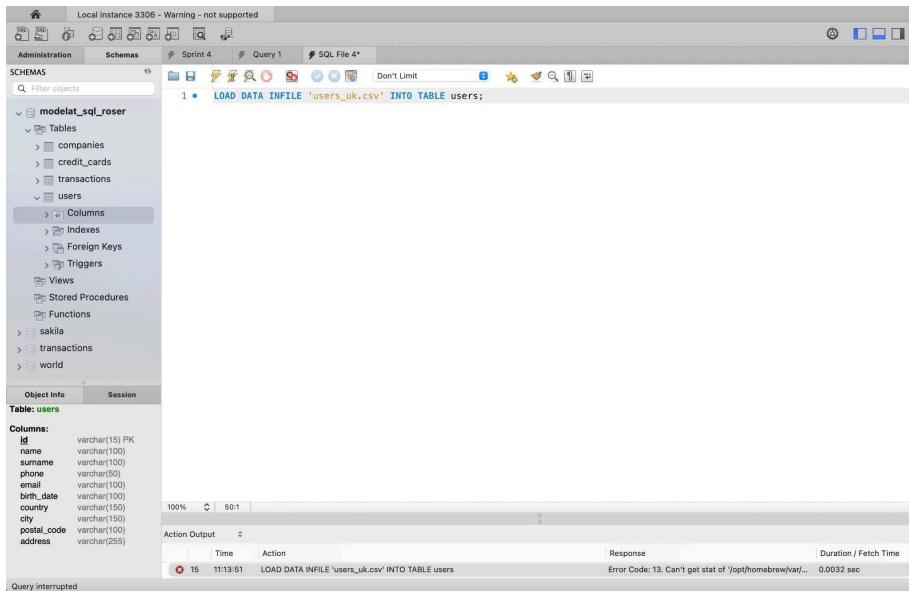
```
1 [mysqld]
2 secure_file_priv=""
3 local_infile=1
4
5 [client]
6 loose-local-infile=1
7
```

The bottom window is a 'Query Results' grid showing the output of the query 'SHOW VARIABLES LIKE 'secure\_file\_priv'':

| Variable_name    | Value |
|------------------|-------|
| secure_file_priv |       |

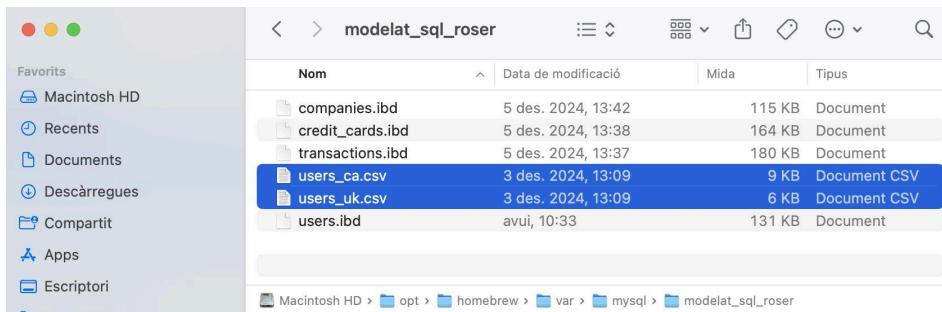
Details from the bottom window's status bar:  
Action Output: 0  
Time: 10:22:51 Action: SHOW VARIABLES LIKE 'secure\_file\_priv'  
Response: 1 row(s) returned  
Duration / Fetch Time: 0.0039 sec / 0.00001...

A continuació afegirem els dos arxius d'usuari



```
11:13:51    LOAD DATA INFILE 'users_uk.csv' INTO TABLE users      Error
Code: 13. Can't get stat of
'/opt/homebrew/var/mysql/modelat_sql_roser/users_uk.csv' (OS errno 2
- No such file or directory)  0.0032 sec
```

Afegim l'arxiu al directori on el busca



Tornem a intentar i ara ens dóna un altre error

The screenshot shows the MySQL Workbench interface. The left sidebar displays the schema 'modelat\_sql\_roser' with tables 'companies', 'credit\_cards', 'transactions', and 'users'. The 'users' table is selected. The main pane shows the SQL query:

```
1 • LOAD DATA INFILE 'users_uk.csv' INTO TABLE users;
```

The status bar at the bottom indicates 'Query interrupted'.

```
11:18:33 LOAD DATA INFILE 'users_uk.csv' INTO TABLE users      Error
Code: 1366. Incorrect integer value:
'id,name,surname,phone,email,birth_date,country,city,postal_code,address' for column 'id' at row 1  0.0038 sec
```

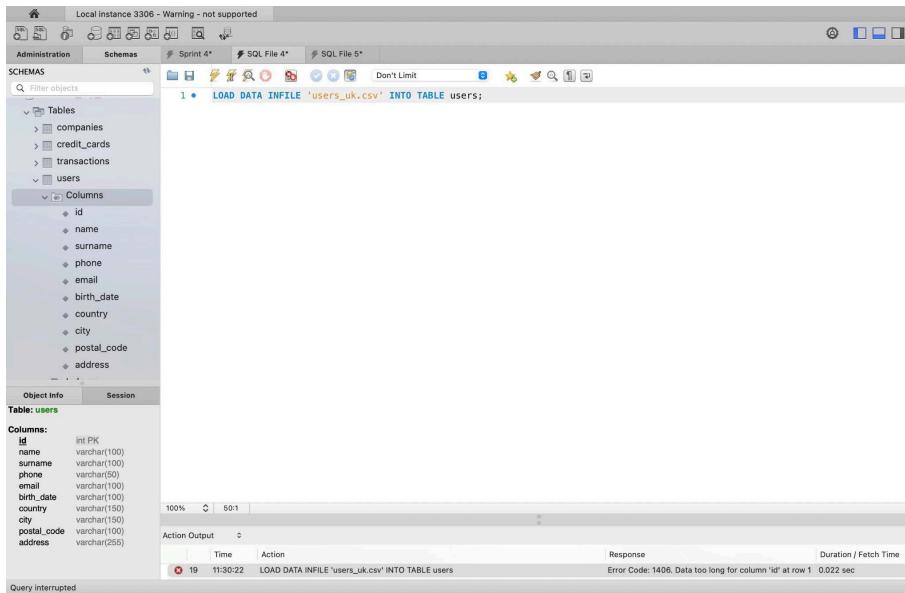
### Tornem a canviar els id a VARCHAR a veure si ens deixa importar

The screenshot shows the MySQL Workbench interface. The left sidebar displays the schema 'modelat\_sql\_roser' with tables 'companies', 'credit\_cards', 'transactions', and 'users'. The 'users' table is selected. The main pane shows the SQL query:

```
1
2 • ALTER TABLE users
3   MODIFY COLUMN id VARCHAR(15);
```

The status bar at the bottom indicates 'Query Completed'.

I ara ens dóna un altre tipus de problema



```
11:30:22    LOAD DATA INFILE 'users_uk.csv' INTO TABLE users      Error
Code: 1406. Data too long for column 'id' at row 1    0.022 sec
```

Trobem que en [aquest article](#) ens diu que podem especificar quan s'acaba

`LOAD DATA` can be used to read files obtained from external sources. For example, many programs can export data in comma-separated values (CSV) format, such that lines have fields separated by commas and enclosed within double quotation marks, with an initial line of column names. If the lines in such a file are terminated by carriage return/newline pairs, the statement shown here illustrates the field- and line-handling options you would use to load the file:

```
LOAD DATA INFILE 'data.txt' INTO TABLE tbl_name
  FIELDS TERMINATED BY ',' ENCLOSED BY '"'
  LINES TERMINATED BY '\r\n'
  IGNORE 1 LINES;
```

If the input values are not necessarily enclosed within quotation marks, use `OPTIONALLY` before the `ENCLOSED BY` option.

I ara si

Local instance 3306 - Warning - not supported

Administration Schemas Sprint 4 SQL File 4\* SQL File 5\* modelat\_sql\_rosen

SCHEMAS Filter objects Tables companies credit\_cards transactions users

Columns id name surname phone email birth\_date country city postal\_code address

Object Info Session

Table: users

Columns:

|             |                |
|-------------|----------------|
| <b>id</b>   | varchar(15) PK |
| name        | varchar(100)   |
| surname     | varchar(100)   |
| phone       | varchar(50)    |
| email       | varchar(100)   |
| birth_date  | varchar(100)   |
| country     | varchar(50)    |
| city        | varchar(150)   |
| postal_code | varchar(100)   |
| address     | varchar(255)   |

Action Output

| Time        | Action   | Response   | Duration / Fetch Time |
|-------------|--|--|-----------------------|
| 21 12:21:34 | LOAD DATA INFILE 'users_uk.csv' INTO TABLE users | FIELDS T... 50 row(s) affected Records: 50 Deleted: 0 Skipped: 0 Warnings: 0 | 0.037 sec             |

Query Completed

```

1 • LOAD DATA INFILE 'users_uk.csv' INTO TABLE users
2   FIELDS TERMINATED BY ',' OPTIONALLY ENCLOSED BY '"'
3   LINES TERMINATED BY '\r\n'
4   IGNORE 1 LINES;

```

## I la taula users ca

Local instance 3306 - Warning - not supported

Administration Schemas Sprint 4\* SQL File 4\* SQL File 5\* modelat\_sql\_rosen

SCHEMAS Filter objects Tables companies credit\_cards transactions users

Columns id name surname phone email birth\_date country city postal\_code address

Object Info Session

Table: users

Columns:

|             |                |
|-------------|----------------|
| <b>id</b>   | varchar(15) PK |
| name        | varchar(100)   |
| surname     | varchar(100)   |
| phone       | varchar(50)    |
| email       | varchar(100)   |
| birth_date  | varchar(100)   |
| country     | varchar(50)    |
| city        | varchar(150)   |
| postal_code | varchar(100)   |
| address     | varchar(255)   |

Action Output

| Time        | Action   | Response   | Duration / Fetch Time |
|-------------|--|--|-----------------------|
| 23 12:23:09 | LOAD DATA INFILE 'users_ca.csv' INTO TABLE users | FIELDS T... 75 row(s) affected Records: 75 Deleted: 0 Skipped: 0 Warnings: 0 | 0.0061 sec            |

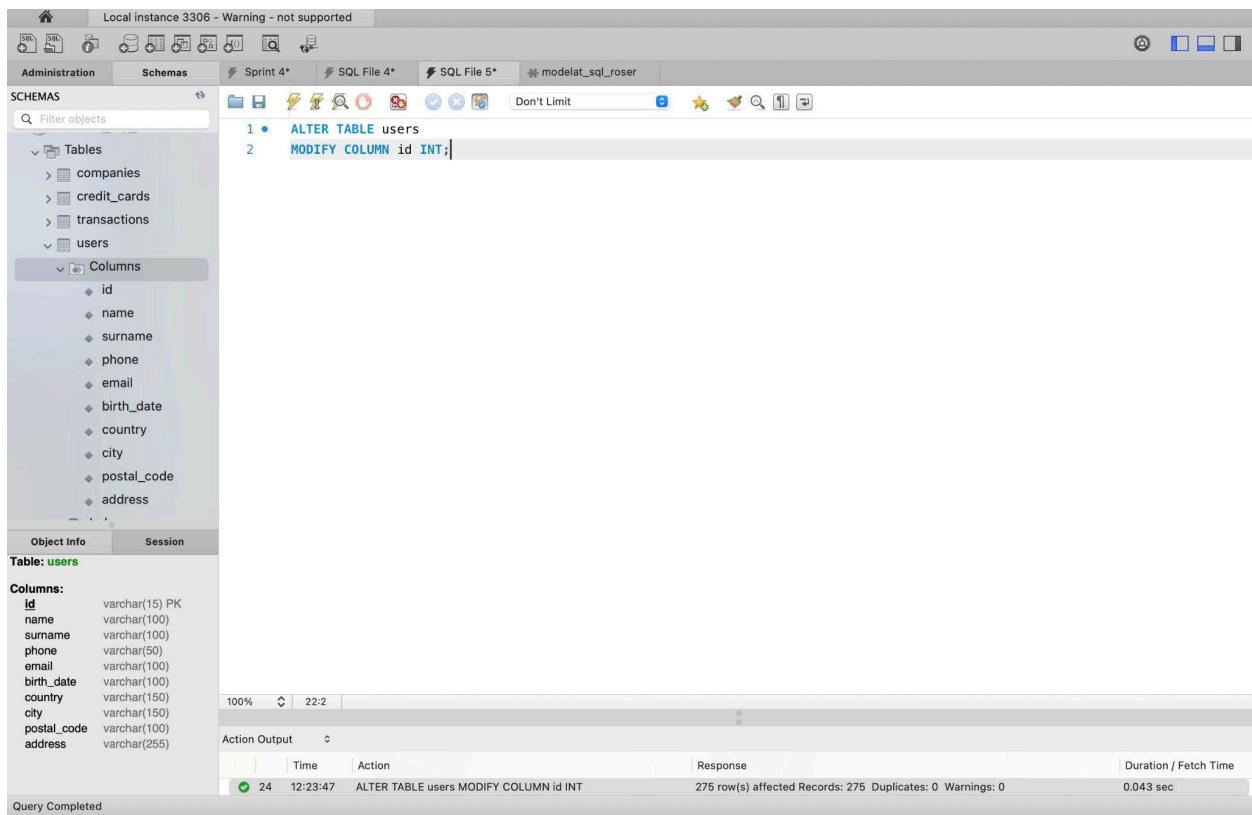
Query Completed

```

1 • LOAD DATA INFILE 'users_ca.csv' INTO TABLE users
2   FIELDS TERMINATED BY ',' OPTIONALLY ENCLOSED BY '"'
3   LINES TERMINATED BY '\r\n'
4   IGNORE 1 LINES;

```

## Canviem el id a INT



The screenshot shows the MySQL Workbench interface. The left sidebar displays the schema structure under 'Schemas' for 'modelat\_sql\_roser'. The 'Tables' section lists 'companies', 'credit\_cards', 'transactions', and 'users'. The 'Columns' section for 'users' lists fields: id, name, surname, phone, email, birth\_date, country, city, postal\_code, and address. The main pane shows the SQL editor with the following query:

```
1 • ALTER TABLE users
2   MODIFY COLUMN id INT;
```

The 'Object Info' tab is selected, showing details for the 'users' table. The 'Columns' section lists the fields and their definitions. The 'Session' tab shows the execution results:

| Action | Output   | Time | Action                                 | Response   | Duration / Fetch Time |
|--------|----------|------|--|--|-----------------------|
| 24     | 12:23:47 |      | ALTER TABLE users MODIFY COLUMN id INT | 275 row(s) affected Records: 275 Duplicates: 0 Warnings: 0 | 0.043 sec             |

At the bottom, a message says 'Query Completed'.

Mirem que està tot bé ara i que ordena els usuaris com toca

The screenshot shows the MySQL Workbench interface. The left pane displays the schema browser with the 'users' table selected. The main pane shows the result grid for the query 'SELECT \* FROM users;'. The right pane has several tabs: Result Grid, Form Editor, Field Types, Query Stats, and Execution Plan.

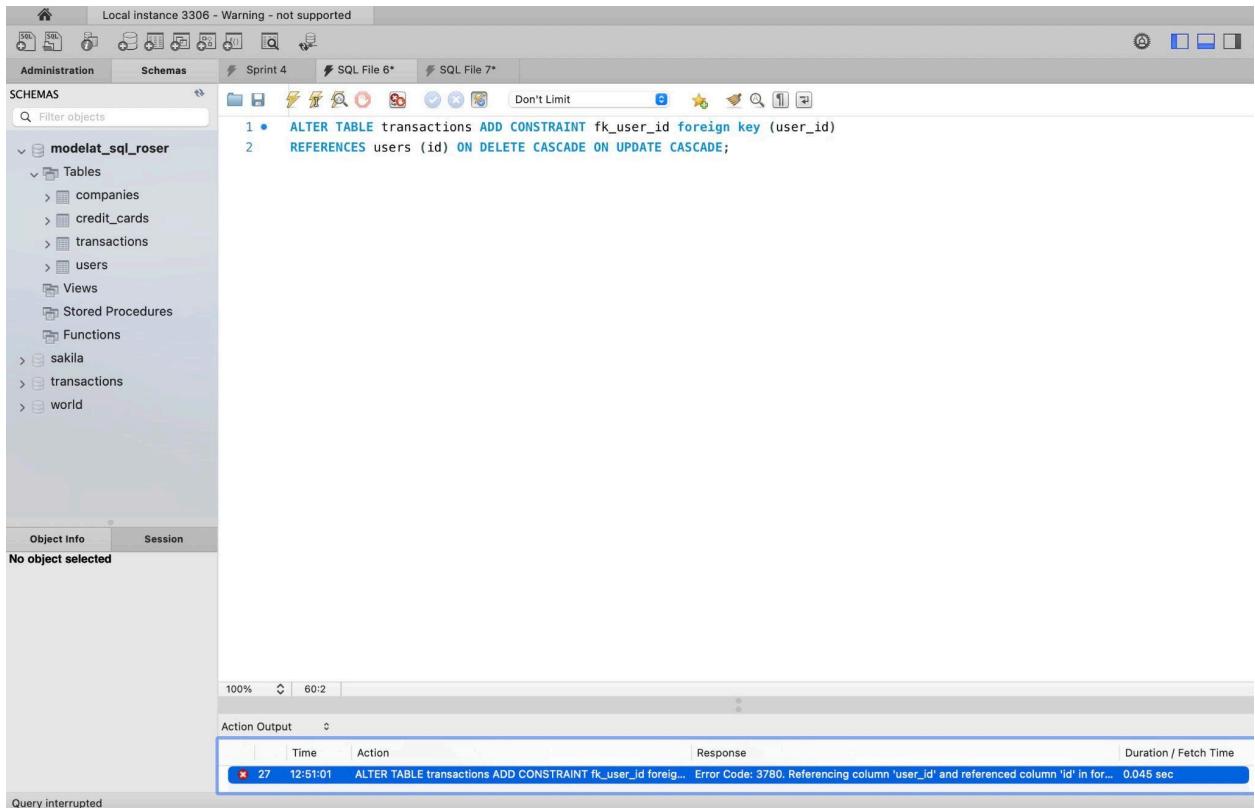
|    | id        | name       | surname        | phone                               | email        | birth_date    | country      | city                          | postal_code                   | address |
|----|-----------|------------|----------------|-------------------------------------|--------------|---------------|--------------|-------------------------------|-------------------------------|---------|
| 1  | Zeus      | Gamble     | 1-282-581-0551 | interdum.enim@protonmail.edu        | Nov 17, 1985 | United States | Lowell       | 73544                         | 348-7818 Sagittis St.         |         |
| 2  | Garrett   | Mcconnell  | (718) 257-2412 | integer.vitae.nibh@protonmail.org   | Aug 23, 1992 | United States | Des Moines   | 59464                         | 903 Sit Ave                   |         |
| 3  | Ciaran    | Harrison   | (522) 598-1365 | interdum.feugiat@ol.org             | Apr 29, 1998 | United States | Columbus     | 56518                         | 736-2063 Tellus St.           |         |
| 4  | Howard    | Stafford   | 1-411-740-3269 | ornare.egestas@icloud.edu           | Feb 18, 1989 | United States | Kailua       | 77417                         | Ap #545-2244 Erat. Rd.        |         |
| 5  | Hayfa     | Pierce     | 1-554-541-2077 | el.malesuada.fame@hotmai.org        | Sep 26, 1999 | United States | Sandy        | 31564                         | 341-2821 Ultrices Av.         |         |
| 6  | Joel      | Tyson      | (718) 288-8020 | gravida.nunc.sed@yahoo.ca           | Oct 15, 1999 | United States | Nashville    | 96838                         | 888-2799 Amet Street          |         |
| 7  | Rafael    | Jimenez    | (817) 689-0478 | eget@outlook.ca                     | Dec 4, 1981  | United States | Hillsboro    | 29874                         | 8627 Meleseauda Rd.           |         |
| 8  | Nissim    | Franks     | (692) 157-3469 | egestas.aliquam.fringilla@google.ca | Aug 1, 1993  | United States | Jackson      | 61750                         | Ap #251-7144 Integer St.      |         |
| 9  | Mannix    | Mcclain    | (590) 883-2164 | aliquam.nisi@outlook.com            | Jan 24, 1987 | United States | Richmond     | 35987                         | 647-3080 Lacinus. St.         |         |
| 10 | Robert    | Mccarthy   | (324) 746-6771 | fermentum@protonmail.com            | Apr 30, 1984 | United States | Eugene       | 85526                         | P.O. Box 773, 3594 Ornare St. |         |
| 11 | Joan      | Baird      | (981) 429-8108 | ei@outlook.net                      | Feb 25, 1990 | United States | Lincoln      | 35211                         | P.O. Box 687, 8917 Ligula St. |         |
| 12 | Benedict  | Wheeler    | 1-515-824-2855 | tincidunt.donec.vitae@hotmail.couk  | Aug 6, 1999  | United States | Lewiston     | 92393                         | 748-8694 Portitor Avenue      |         |
| 13 | Allegra   | Stanton    | 1-927-753-6488 | prin.eget@protonmail.ca             | May 19, 1990 | United States | Kearney      | 14947                         | 4457 Ante. Av.                |         |
| 14 | Sara      | Flynn      | 1-311-646-9333 | integer@outlook.net                 | Dec 27, 1988 | United States | Warren       | 20288                         | P.O. Box 865, 4397 Ante St.   |         |
| 15 | Noelani   | Patrick    | 1-723-488-5894 | sem.magna@google.com                | Sep 17, 1993 | United States | Orlando      | 47987                         | 596-5044 Sapien. Street       |         |
| 16 | Erik      | Roth       | 1-218-549-8253 | lorem.sit@yahoo.net                 | Sep 7, 1988  | United States | Reading      | 96697                         | P.O. Box 541, 5137 Non Road   |         |
| 17 | Bruce     | Gill       | (744) 732-6628 | metus@ol.net                        | Mar 4, 1990  | United States | Davenport    | 43415                         | An #336-9508 Vitae, Ave       |         |
| 18 | Russell   | Jimenez    | (657) 779-2438 | orci@outlook.edu                    | Aug 26, 1993 | United States | Export       | Recordset to an external file | iam.Rd.                       |         |
| 19 | Nicholas  | Travis     | 1-330-223-9652 | libero.dui@hotmail.com              | Jul 15, 1981 | United States | Jacksonville | 71727                         | Ap #459-539 Lectus Avenue     |         |
| 20 | Kelsey    | Bates      | (653) 724-4754 | uliam.corper.nisi@ol.com            | May 6, 1981  | United States | Gulfport     | 50423                         | 824-3624 Lacinia St.          |         |
| 21 | Hall      | Reeves     | (241) 759-9235 | erat.eget@hotmail.edu               | Jul 22, 1987 | United States | Warren       | 85521                         | Ap #745-5948 Sollicitudin St. |         |
| 22 | Allistair | Holmes     | 1-265-323-0812 | donec.tempor.est@protonmail.com     | Nov 5, 1990  | United States | Montpelier   | 85914                         | Ap #794-4229 Ante Rd.         |         |
| 23 | Kelsie    | Bass       | 1-837-832-5631 | consequat@google.ca                 | Apr 2, 1990  | United States | Jefferson... | 97237                         | 407-7562 A, Road              |         |
| 24 | Nolan     | Cash       | (273) 334-3785 | nam@hotmail.com                     | Sep 9, 1994  | United States | Owensboro    | 61256                         | 501-2733 Luctus. Rd.          |         |
| 25 | Wanda     | Campbell   | (702) 823-5535 | sagittis@google.co.uk               | May 31, 1999 | United States | San Jose     | 88665                         | Ap #337-8747 Auctor. Ave      |         |
| 26 | Aquila    | Strickland | 1-246-231-5495 | enim.sit@icloud.com                 | Sep 28, 1982 | United States | Colchester   | 26637                         | Ap #260-4612 Massa Road       |         |
| 27 | Diana     | Williamson | 1-285-365-7779 | id.nunc@nooole.com                  | Dec 14, 1991 | United States | Kearney      | 93484                         | 362-0552 Sed Rd               |         |

Ara afegim les relacions

```
alter table transaction add constraint fk_user_id foreign key (user_id)
references user (id) on delete cascade on update cascade;
```

Relació amb usuaris

Alter table transaction fk user id



## Error

```
12:51:01    ALTER TABLE transactions ADD CONSTRAINT fk_user_id foreign
key (user_id) REFERENCES users (id) ON DELETE CASCADE ON UPDATE
CASCADE    Error Code: 3780. Referencing column 'user_id' and
referenced column 'id' in foreign key constraint 'fk_user_id' are
incompatible.    0.045 sec
```

Això és perquè el datatype del foreign key en cada taula ha de ser el mateix. Canviem el datatype

Local instance 3306 - Warning - not supported

Sprint 4 SQL File 6\* SQL File 7\* Don't Limit

```
1 • ALTER TABLE transactions
2   MODIFY COLUMN user_id INT;
```

**Object Info Session**

**Table: transactions**

**Columns:**

| Name           | Type          | PK |
|----------------|---------------|----|
| <b>id</b>      | varchar(50)   | PK |
| card_id        | varchar(15)   |    |
| business_id    | varchar(15)   |    |
| timestamp      | timestamp     |    |
| amount         | decimal(10,2) |    |
| declined       | tinyint(1)    |    |
| product_ids    | varchar(255)  |    |
| <b>user_id</b> | varchar(15)   |    |
| lat            | float         |    |
| longitude      | float         |    |

Action Output 28 Time 12:55:44 Action Response Duration / Fetch Time

ALTER TABLE transactions MODIFY COLUMN user\_id INT 587 row(s) affected Records: 587 Duplicates: 0 Warnings: 0 0.053 sec

Query Completed

I tornem a provar. Ara si.

Local instance 3306 - Warning - not supported

Sprint 4\* SQL File 6\* SQL File 7\* Don't Limit

```
1 • ALTER TABLE transactions ADD CONSTRAINT fk_user_id foreign key (user_id)
2 REFERENCES users (id) ON DELETE CASCADE ON UPDATE CASCADE; |
```

**Object Info Session**

**Table: transactions**

**Columns:**

| Name           | Type          | PK |
|----------------|---------------|----|
| <b>id</b>      | varchar(50)   | PK |
| card_id        | varchar(15)   |    |
| business_id    | varchar(15)   |    |
| timestamp      | timestamp     |    |
| amount         | decimal(10,2) |    |
| declined       | tinyint(1)    |    |
| product_ids    | varchar(255)  |    |
| <b>user_id</b> | varchar(15)   |    |
| lat            | float         |    |
| longitude      | float         |    |

Action Output 29 Time 12:56:35 Action Response Duration / Fetch Time

ALTER TABLE transactions ADD CONSTRAINT fk\_user\_id foreign key (user\_id) REFERENCES users (id) ON DELETE CASCADE ON UPDATE CASCADE; 587 row(s) affected Records: 587 Duplicates: 0 Warnings: 0 0.033 sec

Query Completed

Relació amb credit card

```

ALTER TABLE transactions ADD CONSTRAINT fk_card_id foreign key (card_id)
REFERENCES credit_cards (id) ON DELETE CASCADE ON UPDATE CASCADE;

```

The screenshot shows the SQL Server Management Studio interface. The left pane displays the database schema for 'modelat\_sql\_roser'. The 'Tables' node under 'modelat\_sql\_roser' contains four tables: 'companies', 'credit\_cards', 'transactions', and 'users'. The 'Actions' bar at the top has tabs for 'Administration', 'Schemas', 'Sprint 4', 'SQL File 6\*', and 'SQL File 7\*'. The main query window shows the execution of the provided T-SQL script. The status bar at the bottom indicates 'Query Completed'.

## Relació amb companies

```

ALTER TABLE transactions ADD CONSTRAINT fk_business_id foreign key (business_id)
REFERENCES companies (id) ON DELETE CASCADE ON UPDATE CASCADE;

```

This screenshot is similar to the previous one, showing the creation of a foreign key constraint on the 'transactions' table. However, the schema browser on the left shows the 'companies' table selected. The 'Columns' section for the 'companies' table is expanded, showing columns like 'id', 'company\_name', 'phone', 'email', 'country', and 'website'. The status bar at the bottom indicates 'Query Completed'.

Li demanem que ens monti un grafic per a comprovar-ho



## - Exercici 1: 30 transaccions

Realitza una subconsulta que mostri tots els usuaris amb més de 30 transaccions utilitzant almenys 2 taules.

Donem una ullada a quantes transaccions té cada usuari

Local instance 3306 - Warning - not supported

Administration Schemas Sprint 4\* SQL File 6\* SQL File 7\*

Filter objects Tables > companies > credit\_cards > transactions Columns id card\_id business\_id timestamp amount declined product\_ids user\_id lat longitude Indexes Foreign Keys Object Info Session

**Table: companies**

**Columns:**

|                     |                |
|---------------------|----------------|
| <b>id</b>           | varchar(15) PK |
| <b>company_name</b> | varchar(255)   |
| <b>phone</b>        | varchar(50)    |
| <b>email</b>        | varchar(100)   |
| <b>country</b>      | varchar(100)   |
| <b>website</b>      | varchar(255)   |

Result 4

```

1 • SELECT user_id, COUNT(id) AS transacciones
2   FROM transactions
3   GROUP BY user_id
4   ORDER BY transacciones DESC;

```

Result Grid Filter Rows: Search Export:

| user_id | transacciones |
|---------|---------------|
| 272     | 76            |
| 267     | 52            |
| 275     | 48            |
| 92      | 39            |
| 96      | 25            |
| 210     | 22            |
| 126     | 17            |
| 110     | 5             |
| 268     | 4             |
| 259     | 4             |
| 270     | 4             |
| 271     | 4             |
| 273     | 4             |
| 274     | 4             |
| 189     | 2             |
| 190     | 2             |
| 191     | 2             |
| 192     | 2             |
| 193     | 2             |
| 194     | 2             |
| 195     | 2             |
| 196     | 2             |
| 197     | 2             |
| 198     | 2             |
| 199     | 2             |
| 200     | 2             |

Action Output

| Time | Action   | Response   | Duration / Fetch Time                          |
|------|----------|--|--|
| 34   | 13:17:00 | SELECT user_id, COUNT(id) AS transacciones FROM transaction... | 216 row(s) returned<br>0.00076 sec / 0.0000... |

Query Completed

I filtrem per usuaris amb aquest numero de transaccions

Local instance 3306 - Warning - not supported

Administration Schemas Sprint 4\* SQL File 6\* SQL File 7\*

Filter objects Tables > companies > credit\_cards > transactions Columns id card\_id business\_id timestamp amount declined product\_ids user\_id lat longitude Indexes Foreign Keys Object Info Session

**Table: companies**

**Columns:**

|                     |                |
|---------------------|----------------|
| <b>id</b>           | varchar(15) PK |
| <b>company_name</b> | varchar(255)   |
| <b>phone</b>        | varchar(50)    |
| <b>email</b>        | varchar(100)   |
| <b>country</b>      | varchar(100)   |
| <b>website</b>      | varchar(255)   |

Result 11

```

1 • SELECT user_id AS usuari, COUNT(id) AS nr_transaccions
2   FROM transactions
3   GROUP BY user_id
4   HAVING COUNT(id) > 30
5   ORDER BY COUNT(id) DESC;

```

Result Grid Filter Rows: Search Export:

| usuari | nr_transaccions |
|--------|-----------------|
| 272    | 76              |
| 267    | 52              |
| 275    | 48              |
| 92     | 39              |

Action Output

| Time | Action   | Response  | Duration / Fetch Time                        |
|------|----------|---|--|
| 51   | 13:24:38 | SELECT user_id AS usuari, COUNT(id) AS nr_transaccions FRO... | 4 row(s) returned<br>0.0013 sec / 0.00000... |

Query Completed

I ara que ens doni només a quests ids

Local Instance 3306 - Warning - not supported

Administration Schemas

SCHEMAS

modelat\_sql\_roser

Tables

companies

Columns

- id
- card\_id
- business\_id
- timestamp
- amount
- declined
- product\_ids
- user\_id
- lat
- longitude

Object Info Session

Table: companies

Columns:

|              |                |
|--------------|----------------|
| <b>id</b>    | varchar(15) PK |
| company_name | varchar(255)   |
| phone        | varchar(50)    |
| email        | varchar(100)   |
| country      | varchar(100)   |
| website      | varchar(255)   |

Result Grid

```

1 •  SELECT user_id
2   FROM transactions
3   GROUP BY user_id
4   HAVING COUNT(id) > 30
5   ORDER BY COUNT(id) DESC;

```

user\_id

|     |
|-----|
| 272 |
| 267 |
| 275 |
| 92  |

Result Grid Form Editor Field Types Query Stats Execution Plan

transactions 12

Action Output

| Time | Action   | Response  | Duration / Fetch Time   |
|------|----------|---|-------------------------|
| 52   | 13:27:43 | SELECT user_id FROM transactions GROUP BY user_id HAVING... 4 row(s) returned | 0.0027 sec / 0.00001... |

Query Completed

ho afegim a la consulta

Local Instance 3306 - Warning - not supported

Administration Schemas

SCHEMAS

modelat\_sql\_roser

Tables

companies

Columns

- id
- card\_id
- business\_id
- timestamp
- amount
- declined
- product\_ids
- user\_id
- lat
- longitude

Object Info Session

Table: companies

Columns:

|              |                |
|--------------|----------------|
| <b>id</b>    | varchar(15) PK |
| company_name | varchar(255)   |
| phone        | varchar(50)    |
| email        | varchar(100)   |
| country      | varchar(100)   |
| website      | varchar(255)   |

Result Grid

```

1
2 •  SELECT *
3   FROM users
4   WHERE id IN (SELECT user_id
5     FROM transactions
6     GROUP BY user_id
7     HAVING COUNT(id) > 30
8     ORDER BY COUNT(id) DESC)
9

```

id name surname phone email birth\_date country city postal\_code address

|      |        |         |                |                                 |              |               |               |         |                                |
|------|--------|---------|----------------|---------------------------------|--------------|---------------|---------------|---------|--------------------------------|
| 92   | Lynn   | Riddle  | 1-387-885-4057 | vitae.aliquet@outlook.edu       | Sep 21, 1984 | United States | Bozeman       | 61671   | P.O. Box 712, 7907 Est St.     |
| 267  | Ocean  | Nelson  | 079-481-2745   | aenean@yahoo.com                | Dec 26, 1991 | Canada        | Charlottetown | 85X 3P4 | Ap #732-8357 Pede, Rd.         |
| 272  | Hedwig | Gilbert | 064-204-8768   | sem.eget@icloud.edu             | Apr 16, 1991 | Canada        | Tuktoyaktuk   | Q4C 3G7 | P.O. Box 496, 5145 Sapien Road |
| 275  | Kerwyn | Hartman | 082-871-7248   | convallis.ante.lectus@yahoo.com | Aug 3, 1982  | Canada        | Richmond      | R8H 2K2 | 8564 Facilisi, St.             |
| NULL | NULL   | NULL    | NULL           | NULL                            | NULL         | NULL          | NULL          | NULL    | NULL                           |

users 1

Action Output

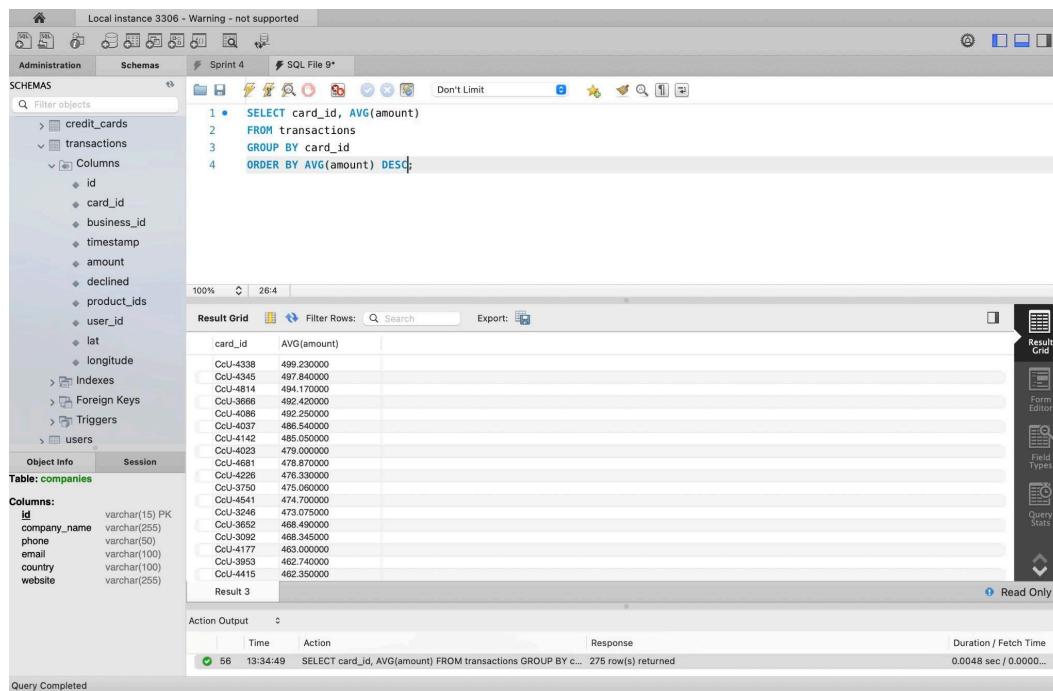
| Time | Action   | Response  | Duration / Fetch Time   |
|------|----------|---|-------------------------|
| 53   | 13:28:47 | SELECT * FROM users WHERE id IN (SELECT user_id FROM tra... 4 row(s) returned | 0.0072 sec / 0.00003... |

Query Completed

## - Exercici 2: mitjana per iban

Mostra la mitjana d'amount per IBAN de les targetes de crèdit a la companyia Donec Ltd, utilitza almenys 2 taules.

Comencem fent un average per credit card, que se li assembla bastant



The screenshot shows the MySQL Workbench interface with a query editor and a results grid. The query is:

```
1 •  SELECT card_id, AVG(amount)
2   FROM transactions
3   GROUP BY card_id
4   ORDER BY AVG(amount) DESC;
```

The results grid displays the following data:

| card_id  | AVG(amount) |
|----------|-------------|
| CcU-4338 | 499.230000  |
| CcU-4345 | 497.840000  |
| CcU-4814 | 494.170000  |
| CcU-4086 | 490.400000  |
| CcU-4086 | 486.250000  |
| CcU-4037 | 486.540000  |
| CcU-4142 | 485.050000  |
| CcU-4023 | 479.000000  |
| CcU-4681 | 478.870000  |
| CcU-4226 | 476.330000  |
| CcU-3750 | 475.060000  |
| CcU-3246 | 473.075000  |
| CcU-3682 | 468.490000  |
| CcU-3092 | 468.345000  |
| CcU-4177 | 463.000000  |
| CcU-3953 | 462.740000  |
| CcU-4415 | 462.350000  |

At the bottom, the status bar shows "Query Completed".

Busquem el id de la companyia Donec b-2242

Local instance 3306 - Warning - not supported

Administration   Schemas   Sprint 4   SQL File 9\*   SQL File 10\*

Filter objects   Don't Limit

```

1 •  SELECT *
2   FROM companies;
  
```

100% 16:2

**Result Grid**   Filter Rows: Search   Edit: Export/Import:

| id     | company_name                 | phone          | email                           | country        | website                        |
|--------|------------------------------|----------------|---------------------------------|----------------|--------------------------------|
| b-2242 | Donec Ltd                    | 01 25 51 37 37 | at.laculis@hotmail.co.uk        | Norway         | https://nytimes.com/user/110   |
| b-2482 | Dui Cras Associates          | 08 12 73 87 84 | tristique@yahoo.com             | Italy          | https://reddit.com/r/          |
| b-2578 | Dui Quis Institute           | 06 93 28 72 81 | luctus.sit.amet@yahoo.co.uk     | New Zealand    | https://yahoo.com/en-us        |
| b-2610 | Egestas Nunc Sed Limited     | 06 01 02 70 47 | vitae@hotmail.edu               | Italy          | https://walmart.com/one        |
| b-2398 | Eget Ipsum Ltd               | 03 67 44 56 72 | lacinia.at.iaculis@hotmail.net  | United States  | https://whatsapp.com/settings  |
| b-2458 | Eget Tincidunt Dui Institute | 05 35 93 32 44 | eget.litorum@hotmail.org        | Netherlands    | https://wikipedia.org/user/110 |
| b-2298 | Eii Etiam Laoreet Associates | 07 60 74 17 45 | ultrices@google.co.uk           | Canada         | https://yahoo.com/fr           |
| b-2328 | Enim Condimentum Ltd         | 09 55 51 66 25 | imperdiet.non.vestibulum@yah... | United Kingdom | https://cnr.com/group/9        |
| b-2378 | Erat LLP                     | 03 18 88 77 79 | non.vestibulum@protonmail.net   | Netherlands    | https://ebay.com/fr            |
| b-2594 | Et Magnis Ltd                | 03 53 76 11 76 | dapibus.igula@protonmail.net    | Belgium        | https://instagram.com/sub      |
| b-2478 | Etiam Bibendum Fermentum...  | 07 46 69 45 02 | sem.magna@icloud.ca             | France         | https://youtube.com/one        |
| b-2590 | Euismod Mauris Institute     | 02 13 69 54 85 | vivamus.moleste@icloud.ca       | Belgium        | https://ebay.com/en-ca         |

companys 1   Apply   Revert

Action Output   Time Action   Response   Duration / Fetch Time

57 13:36:14 SELECT \* FROM companies 100 row(s) returned 0.0026 sec / 0.00004...

Query Completed

I filtrem els resultats

Local instance 3306 - Warning - not supported

Administration Schemas Sprint 4 SQL File 9\* SQL File 10\*

SCHEMAS Filter objects Triggers credit\_cards transactions Columns id card\_id business\_id timestamp amount declined product\_ids user\_id lat longitude Indexes Foreign Keys Object Info Session

```

1 •   SELECT card_id, AVG(amount)
2   FROM transactions
3   WHERE business_id = 'b-2242'
4   GROUP BY card_id
5   ORDER BY AVG(amount) DESC;

```

Result Grid Filter Rows: Search Export:

| card_id  | Avg(amount) |
|----------|-------------|
| CcU-2973 | 203.715000  |

Result 4

Action Output

| Time        | Action   | Response          | Duration / Fetch Time   |
|-------------|--|-------------------|-------------------------|
| 58 13:37:45 | SELECT card_id, AVG(amount) FROM transactions WHERE bus... | 1 row(s) returned | 0.0042 sec / 0.00000... |

Query Completed

Ara reemplacem el ID per una subquery i mirem que ens dóna el mateix

Local instance 3306 - Warning - not supported

Administration Schemas Sprint 4 SQL File 9\* SQL File 10\*

SCHEMAS Filter objects Triggers credit\_cards transactions Columns id card\_id business\_id timestamp amount declined product\_ids user\_id lat longitude Indexes Foreign Keys Object Info Session

```

1 •   SELECT card_id, AVG(amount)
2   FROM transactions
3   WHERE business_id = (SELECT id
4     FROM companies
5     WHERE company_name='Donec Ltd')
6   GROUP BY card_id
7   ORDER BY AVG(amount) DESC;

```

Result Grid Filter Rows: Search Export:

| card_id  | Avg(amount) |
|----------|-------------|
| CcU-2973 | 203.715000  |

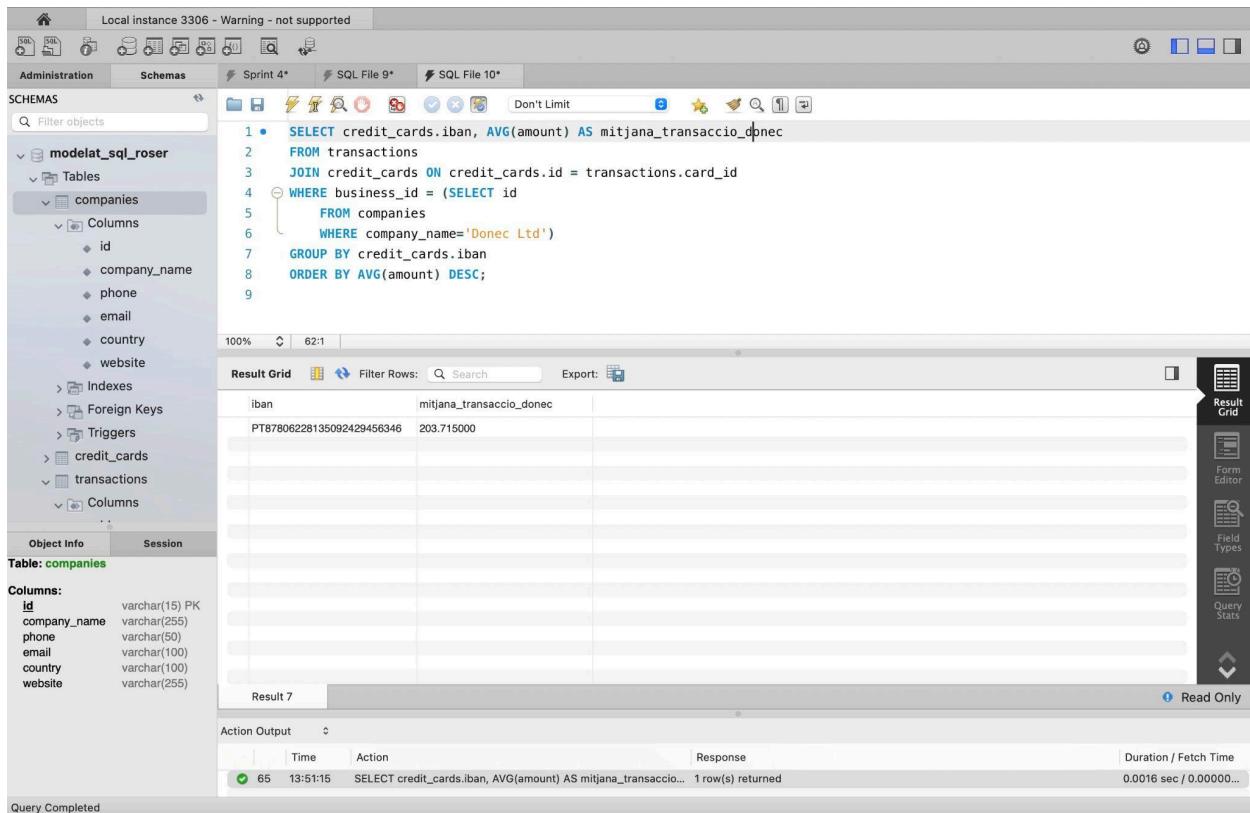
Result 5

Action Output

| Time        | Action   | Response          | Duration / Fetch Time   |
|-------------|--|-------------------|-------------------------|
| 60 13:40:09 | SELECT card_id, AVG(amount) FROM transactions WHERE bus... | 1 row(s) returned | 0.0036 sec / 0.00000... |

Query Completed

Li afegim els ibans



The screenshot shows the MySQL Workbench interface. On the left, the schema browser displays the 'modelat\_sql\_roser' database with tables 'companies', 'credit\_cards', and 'transactions'. The 'companies' table is selected, showing columns: id, company\_name, phone, email, country, and website. A query editor window contains the following SQL code:

```
1 •  SELECT credit_cards.iban, AVG(amount) AS mitjana_transaccio_donec
2   FROM transactions
3   JOIN credit_cards ON credit_cards.id = transactions.card_id
4   WHERE business_id = (SELECT id
5     FROM companies
6     WHERE company_name='Donec Ltd')
7   GROUP BY credit_cards.iban
8   ORDER BY AVG(amount) DESC;
9
```

The result grid shows one row of data:

| iban                      | mitjana_transaccio_donec |
|---------------------------|--------------------------|
| PT87806228135092429456346 | 203.715000               |

Below the grid, the action output shows the query was executed successfully in 0.0016 sec.

## Nivell 2

Crea una nova taula que reflecteixi l'estat de les targetes de crèdit basat en si les últimes tres transaccions van ser declinades i genera la següent consulta:

Entenem que les targetes que han segut declinades les últimes tres transaccions són tgt inactives i que la resta són actives

Comencem preguntant quantes targetes hi ha que hagin fet transaccions

The screenshot shows the MySQL Workbench interface. The left sidebar displays the schema structure for the 'transactions' table, including columns like id, card\_id, business\_id, timestamp, amount, declined, product\_ids, user\_id, lat, and longitude. A query editor window contains the following SQL code:

```
1 •  SELECT distinct(card_id)
2   FROM transactions;
3
```

The results grid shows 275 rows of data, each containing a unique card ID. The right sidebar provides various tools and options for managing the query.

| card_id   |
|-----------|
| CcU-2938  |
| CcU-2945  |
| CcU-2952  |
| CcU-2959  |
| CcU-2966  |
| CcU-2973  |
| CcU-2980  |
| CcU-2987  |
| CcU-2994  |
| CcU-3001  |
| CcU-3008  |
| CcU-3015  |
| CcU-3022  |
| CcU-3029  |
| CcU-3036  |
| CcU-3043  |
| CcU-3050  |
| CcU-3057  |
| CcU-3064  |
| CcU-3071  |
| CcU-3078  |
| CcU-3085  |
| CcU-3092  |
| CcU-3099  |
| CcU-3106  |
| CcU-3113  |
| Result 14 |

I quantes transaccions ha tingut cada targeta

Local instance 3306 - Warning - not supported

Administration   Schemas   Sprint 4\*   SQL File 9\*   SQL File 10\*

SCHEMAS   Filter objects   Filter Rows: Search   Export:

```

1 •  SELECT distinct(card_id), count(id)
2   FROM transactions
3   GROUP BY card_id
4   ORDER BY count(id) DESC;
5

```

Result Grid   Filter Rows: Search   Export:

| card_id  | count(id) |
|----------|-----------|
| CcU-2994 | 39        |
| CcU-4219 | 39        |
| CcU-2959 | 38        |
| CcU-4849 | 29        |
| CcU-4191 | 25        |
| CcU-2938 | 24        |
| CcU-3393 | 22        |
| CcU-3981 | 17        |
| CcU-4093 | 5         |
| CcU-2945 | 2         |
| CcU-2952 | 2         |
| CcU-2966 | 2         |
| CcU-2973 | 2         |
| CcU-2980 | 2         |
| CcU-2987 | 2         |
| CcU-3001 | 2         |
| CcU-3008 | 2         |
| CcU-3015 | 2         |
| CcU-3022 | 2         |
| CcU-3029 | 2         |
| CcU-3036 | 2         |
| CcU-3043 | 2         |
| CcU-3050 | 2         |
| CcU-3057 | 2         |
| CcU-3064 | 2         |
| CcU-3071 | 2         |

Result 16   Read Only

Action Output   Time   Action   Response   Duration / Fetch Time

|    |          |  |                     |                         |
|----|----------|--|---------------------|-------------------------|
| 76 | 15:34:48 | SELECT distinct(card_id), count(id) FROM transactions GROUP... | 275 row(s) returned | 0.0019 sec / 0.00003... |
|----|----------|--|---------------------|-------------------------|

Query Completed

I quantes vegades en total s'ha declinat cada targeta

Local instance 3306 - Warning - not supported

Administration   Schemas   Sprint 4\*   SQL File 9\*   SQL File 10\*   SQL File 11\*

SCHEMAS   Filter objects

- > expiring\_cards
  - > Indexes
  - > Foreign Keys
  - > Triggers
- > transactions
  - > Columns
    - id
    - card\_id
    - business\_id
    - timestamp
    - amount
    - declined**
    - product\_ids
    - user\_id
    - lat
    - longitude
  - > Indexes

Object Info   Session

Column: **declined**

Definition: declined tinyint(1)

```

1 •  SELECT distinct(card_id), count(id), sum(declined)
2   FROM transactions
3   GROUP BY card_id
4   ORDER BY sum(declined) DESC;
5

```

Result Grid   Filter Rows: Search Export:

| card_id  | count(id) | sum(decline...) |
|----------|-----------|-----------------|
| CcU-2938 | 24        | 1               |
| CcU-2945 | 2         | 1               |
| CcU-2952 | 2         | 1               |
| CcU-2959 | 38        | 1               |
| CcU-2966 | 2         | 1               |
| CcU-2973 | 2         | 1               |
| CcU-2980 | 2         | 1               |
| CcU-2987 | 2         | 1               |
| CcU-2994 | 39        | 1               |
| CcU-3001 | 2         | 1               |
| CcU-3008 | 2         | 1               |
| CcU-3015 | 2         | 1               |
| CcU-3022 | 2         | 1               |
| CcU-3029 | 2         | 1               |
| CcU-3036 | 2         | 1               |
| CcU-3043 | 2         | 1               |
| CcU-3050 | 2         | 1               |
| CcU-3057 | 2         | 1               |
| CcU-3064 | 2         | 1               |
| CcU-3071 | 2         | 1               |
| CcU-3078 | 2         | 1               |
| CcU-3085 | 2         | 1               |
| CcU-3092 | 2         | 1               |
| CcU-3099 | 2         | 1               |
| CcU-3106 | 2         | 1               |
| CcU-3113 | 2         | 1               |

Result 20   Read Only

Action Output   Time Action Response Duration / Fetch Time

|    |          |  |                     |                        |
|----|----------|--|---------------------|------------------------|
| 84 | 15:38:31 | SELECT distinct(card_id), count(id), sum(declined) FROM trans... | 275 row(s) returned | 0.0046 sec / 0.0000... |
|----|----------|--|---------------------|------------------------|

Query Completed

Sembla que cap targeta d'hagi declinat més d'una vegada. Inclús investigant una mica més a fons.

Local instance 3306 - Warning - not supported

Administration Schemas Sprint 4\* SQL File 9\* SQL File 10\* SQL File 11\*

SCHEMAS Filter objects

- > Indexes
- > Foreign Keys
- > Triggers
- transactions
- Columns
  - id
  - card\_id
  - business\_id
  - timestamp
  - amount
  - declined
  - product\_ids
  - user\_id
  - lat
  - longitude
- Indexes

Object Info Session

Column: declined

Definition: declined tinyint(1)

```

1 • SELECT *
2   FROM transactions
3   WHERE card_id = 'CcU-3393';

```

Result Grid Filter Rows: Search Edit: Export/Import:

| id                                    | card_id  | business_id | timestamp           | amount | declined | product_ids | user_id | lat            | longitude |
|---------------------------------------|----------|-------------|---------------------|--------|----------|-------------|---------|----------------|-----------|
| 49CD105D-E569-3733-C8C8-3908ED7E1838  | CcU-3393 | b-2326      | 2021-12-24 23:43:59 | 411.81 | 0        |             |         | -47.8783       | 168.275   |
| 51A4866C-484C-5529-8419-B7BBADE4294D  | CcU-3393 | b-2346      | 2021-03-27 10:25:42 | 447.06 | 0        |             |         | 74.8691        | -147.034  |
| 61EC87A4-CF88-B392-F93B-75EF2FC93537  | CcU-3393 | b-2326      | 2021-06-01 20:23:57 | 346.10 | 0        |             |         | 88.4626        | 85.6351   |
| 71CB87BE-F93E-4877-DF6D-1BD3B312ED29  | CcU-3393 | b-2326      | 2021-10-21 20:41:56 | 441.63 | 0        |             |         | -27.1212       | -105.573  |
| 7D00819EC-7363-6767-36C0-97CE77D5E65  | CcU-3393 | b-2326      | 2021-05-09 15:36:26 | 158.89 | 0        |             |         | -26.2616       | 25.8733   |
| 84BBECA6-A786-91C0-C973-88730565BFa3  | CcU-3393 | b-2326      | 2021-12-02 07:12:35 | 179.18 | 0        |             |         | 11.71,17       | 110       |
| 8C5C40B3-3988-EE44-128E-18147A9E62D2  | CcU-3393 | b-2346      | 2021-12-22 05:18:10 | 123.09 | 0        |             |         | -32.7338       | -136.163  |
| 925C1A912-BC56-8905-9279-FC88DE2185f6 | CcU-3393 | b-2326      | 2021-05-09 17:01:17 | 341.44 | 0        |             |         | 49.4942        | -62.5086  |
| 9833DD1C-702C-A8A7-FB46-ABC4A70DF7B4  | CcU-3393 | b-2326      | 2022-01-06 22:25:58 | 472.18 | 0        |             |         | -84.9792       | 128.766   |
| 9A993DCE-716B-D784-9192-285C2A490Ae8  | CcU-3393 | b-2346      | 2021-08-28 23:40:17 | 193.64 | 0        |             |         | 61.11,23       | 105.291   |
| 9EE639A3-2836-87C2-207F-AF3941834DB2  | CcU-3393 | b-2346      | 2021-08-09 08:17:46 | 368.83 | 0        |             |         | 19.7           | 100       |
| A022DC5d-F7C9-EA3-0308-32488538f6BD   | CcU-3393 | b-2482      | 2022-02-19 17:24:18 | 153.89 | 1        |             |         | 47.61          | 272       |
| A234A47C-7594-6485-E582-79D6671E1483  | CcU-3393 | b-2326      | 2021-12-13 12:20:16 | 100.78 | 0        |             |         | 7,3,2          | 113       |
| A4534186-6CA4-E910-26E1-8986816885E9  | CcU-3393 | b-2326      | 2021-06-06 11:57:32 | 58.14  | 0        |             |         | 37.29          | 114       |
| B1ED4136-D41A-6BF3-4C61-7A575F624670  | CcU-3393 | b-2482      | 2021-06-09 16:23:11 | 22.19  | 0        |             |         | 23,71,29       | 5,272     |
| B220187A-2A9C-0384-EEA1-DD917F11C94F  | CcU-3393 | b-2326      | 2021-09-07 04:13:28 | 466.48 | 0        |             |         | 53             | 115       |
| BAA38D001-C4D1-6F43-DOF8-5EC8C8B8384B | CcU-3393 | b-2326      | 2022-02-05 15:36:28 | 167.19 | 0        |             |         | 53,97,73       | 2,109     |
| CEED5D49-B28f-49A6-E567-9e7f74864190  | CcU-3393 | b-2346      | 2021-09-09 02:41:00 | 107.30 | 0        |             |         | 19,71,41       | 103       |
| D95F1C84-2844-66D2-3958-E4EBEFc36A75  | CcU-3393 | b-2326      | 2021-08-14 17:42:42 | 266.37 | 0        |             |         | 47,89          | 110       |
| DD9860B0-D1BC-F993-4DE8-Sa247ACD73    | CcU-3393 | b-2326      | 2021-09-24 14:08:59 | 176.20 | 0        |             |         | 2,23           | 110       |
| F843DC08-CCB5-2444-1B4E-5966289FBaB8  | CcU-3393 | b-2346      | 2021-04-27 08:12:28 | 18.08  | 0        |             |         | 7,53,37        | 102       |
| F85a7D75-2778-9D75-D776-3F41A828DE88  | CcU-3393 | b-2346      | 2021-10-10 01:46:36 | 135.93 | 0        |             |         | 23,97,31,3,101 | 24.1698   |
| HULL                                  | HULL     | HULL        | HULL                | HULL   | HULL     | HULL        | HULL    | HULL           | HULL      |

transactions 4

Action Output

| Time        | Action   | Response            | Duration / Fetch Time  |
|-------------|--|---------------------|------------------------|
| 84 15:38:31 | SELECT distinct(card_id), count(id), sum(declined) FROM trans... | 275 row(s) returned | 0.0046 sec / 0.0000... |

Query Completed

En qualsevol cas, seguim. Ordenem les transaccions de més recents a més antigues

Local instance 3306 - Warning - not supported

Administration   Schemas   Sprint 4\*   SQL File 10\*   SQL File 11\*   SQL File 12\*   SQL File 13\*   SQL File 14\*

SCHEMAS   Filter objects   Indexes   Foreign Keys   Triggers   transactions   Columns   id, card\_id, business\_id, timestamp, amount, declined, product\_ids, user\_id, lat, longitude   Indexes   Object Info   Session

```

1 •   SELECT *
2     FROM transactions
3     ORDER BY timestamp DESC;

```

Result Grid   Filter Rows: Search   Edit: Export/Import:

| id                                     | card_id  | business_id | timestamp           | amount | declined | product_ids   | user_id | lat      | longitude |
|--|----------|-------------|---------------------|--------|----------|---------------|---------|----------|-----------|
| 69D90229-AD26-43C3-5AAF-BD332D3B3E62   | CcU-2959 | b-2362      | 2022-03-16 14:01:36 | 329.03 | 0        | 67, 29        | 92      | 4.07537  | 129.723   |
| F1D89D51-B-AE8D-77DC-E450-B8083FB03187 | CcU-3960 | b-2494      | 2022-03-09 02:35:05 | 200.72 | 0        | 3, 2, 73, 1   | 250     | 8.01217  | -64.6715  |
| CA515AD3-5A34-6966-073E-1D231CE56678   | CcU-4709 | b-2278      | 2022-03-15 16:24:37 | 25.78  | 0        | 2             | 206     | 80.0508  | -167.602  |
| D5C5ABC8-1-D3-E8C7-29A9-C136DEAD8E     | CcU-3799 | b-2618      | 2022-03-15 02:15:32 | 101.32 | 0        | 73, 31        | 261     | -6.94376 | -56.6999  |
| 2EBE1D7D-90D7-944D-E758-2CD8949497A5   | CcU-4191 | b-2346      | 2022-03-14 13:51:53 | 305.47 | 0        | 89, 53, 59    | 96      | 4.10875  | -60.6688  |
| 6ADF86D5-D-D032-B8C6-F157-0C836F5BEF67 | CcU-4849 | b-2302      | 2022-03-14 09:23:10 | 20.33  | 0        | 1             | 190     | 26.4978  | -54.1349  |
| 5BA91852-2D60-169A-805B-E1FA120E9683   | CcU-4471 | b-2302      | 2022-03-13 13:37:34 | 164.32 | 0        | 3             | 213     | 7.30204  | 72.5522   |
| F22E9857-414B-BEEC-E9A-D-59A7-A9A62990 | CcU-3232 | b-2390      | 2022-03-13 00:27:34 | 78.29  | 0        | 83, 7, 17, 89 | 272     | -24.3195 | -11.4135  |
| A085A78A-8829-5746-93A0-887A792EBC18   | CcU-2938 | b-2362      | 2022-03-12 09:23:10 | 263.59 | 0        | 2, 3, 29      | 92      | 25.5502  | -142.624  |
| D1389977-A7AD-1856-10EA-E2D04741D40C   | CcU-2994 | b-2326      | 2022-03-10 03:43:25 | 226.16 | 0        | 1, 5          | 127     | -8.7274  | 37.96     |
| F1A598A2-86C5-50A9-F1CE-FB1D69866C39   | CcU-2938 | b-2362      | 2022-03-09 20:53:59 | 229.65 | 0        | 79, 73        | 84      | -65.124  | 31.0337   |
| 556bA583-1E05-6B1F-BE39-36f447868EF    | CcU-3463 | b-2522      | 2022-03-09 04:15:58 | 470.03 | 1        | 17, 7         | 267     | -34.5017 | -6.4337   |
| 158A3ACB-541C-DBCC-65BD-6373C6c7BF1C   | CcU-4849 | b-2302      | 2022-03-08 05:02:19 | 240.29 | 0        | 13, 41, 89... | 183     | 42.5424  | -170.347  |
| 2139A647-D965-AA81-3915-55DADA161CD3F  | CcU-3127 | b-2330      | 2022-03-07 10:53:46 | 119.68 | 0        | 79, 71        | 273     | 9.50453  | 128.879   |
| ACCD2011A-A2B1-C365-41E1-2AB00C68147A  | CcU-2980 | b-2246      | 2022-03-05 20:41:20 | 60.07  | 1        | 2, 83         | 275     | -54.4792 | -82.7974  |
| F28E106B-5418-4667-9514-2E2A8232EC6C   | CcU-3358 | b-2462      | 2022-03-05 06:54:37 | 114.89 | 1        | 79, 47, 97    | 272     | -55.9496 | -11.6066  |
| 0B880B7-9D66-1707-C-E48-9-DC7E7191485  | CcU-3141 | b-2338      | 2022-03-04 14:54:35 | 288.81 | 1        | 19, 41, 29, 3 | 272     | 23.3264  | -13.6037  |
| 95E9F678-3731-2845-EB21-1ABD2D016BCB   | CcU-2959 | b-2346      | 2022-03-04 02:48:32 | 192.13 | 0        | 31            | 92      | 16.5773  | -123.777  |
| 3E495E51-E1C5-26F1-0E3E-2D13EA2593A    | CcU-4282 | b-2302      | 2022-03-03 14:29:15 | 417.70 | 0        | 31, 97, 17, 1 | 227     | -50.5725 | -172.508  |
| A1ABD82E-4E96-3D0D-2E4C-B19425290943   | CcU-3344 | b-2454      | 2022-03-02 19:42:05 | 443.11 | 1        | 53, 1, 67, 73 | 272     | 24.7104  | 163.19    |
| D33B21EB-A61E-BD8C-SDE7-1DAA4C210AE6   | CcU-2994 | b-2254      | 2022-03-02 13:29:50 | 20.35  | 0        | 17, 13, 73    | 275     | 5.27302  | 5.06131   |
| 34AA1D64-2989-DE1C-8705-C66C8DD191DD   | CcU-4219 | b-2302      | 2022-03-02 05:30:41 | 275.45 | 0        | 13, 97, 37    | 166     | -17.0772 | -169.006  |
| 3B37BE91-420F-4361-23A8-3C5A42B998F7   | CcU-4849 | b-2278      | 2022-03-02 02:21:42 | 154.94 | 0        | 37            | 191     | 7.17413  | -0.998084 |
| 77D7C634-E5D9-34AE-8A06-8AE5740A037    | CcU-3484 | b-2534      | 2022-03-01 19:12:42 | 155.57 | 0        | 59, 07, 2, 43 | 267     | 22.465   | -06.0771  |

Action Output   Time Action Response Duration / Fetch Time

112 15:55:36 SELECT \* FROM transactions ORDER BY timestamp DESC 587 row(s) returned 0.0019 sec / 0.00054...

Query Completed

Experimentem una mica amb ROW\_NUMBER

Local Instance 3306 - Warning - not supported

Administration   Schemas

SCHEMAS

modelat\_sql\_roser

Tables

Companies

Credit\_cards

Transactions

Columns

id

card\_id

business\_id

timestamp

amount

declined

product\_ids

user\_id

lat

longitude

Indexes

Foreign Keys

Object Info   Session

No object selected

```

1
2 •  SELECT card_id, timestamp, ROW_NUMBER () over (order by timestamp)
3   FROM transactions;

```

Result Grid   Filter Rows: Search Export:

| card_id  | timestamp           | ROW_NUMBER () over (order by timestamp) |
|----------|---------------------|---|
| CcU-4317 | 2021-03-17 02:55:49 | 1                                       |
| CcU-4023 | 2021-03-17 16:23:23 | 2                                       |
| CcU-3449 | 2021-03-18 05:42:48 | 3                                       |
| CcU-4632 | 2021-03-21 16:22:42 | 4                                       |
| CcU-2938 | 2021-03-23 01:12:06 | 5                                       |
| CcU-3505 | 2021-03-23 01:58:34 | 6                                       |
| CcU-3673 | 2021-03-23 02:17:50 | 7                                       |
| CcU-4849 | 2021-03-23 03:02:51 | 8                                       |
| CcU-3120 | 2021-03-23 15:43:37 | 9                                       |
| CcU-4807 | 2021-03-25 19:56:52 | 10                                      |
| CcU-4352 | 2021-03-25 21:48:18 | 11                                      |
| CcU-4030 | 2021-03-26 02:09:01 | 12                                      |
| CcU-4219 | 2021-03-26 13:46:28 | 13                                      |
| CcU-3988 | 2021-03-26 15:26:48 | 14                                      |
| CcU-3393 | 2021-03-27 10:25:42 | 15                                      |
| CcU-2938 | 2021-03-28 05:01:44 | 16                                      |
| CcU-3883 | 2021-03-29 11:04:24 | 17                                      |
| CcU-4219 | 2021-03-29 11:38:38 | 18                                      |
| CcU-3008 | 2021-03-29 16:15:13 | 19                                      |
| CcU-3981 | 2021-03-29 23:54:35 | 20                                      |
| CcU-3274 | 2021-03-30 17:05:54 | 21                                      |
| CcU-4758 | 2021-03-30 17:21:34 | 22                                      |
| CcU-3337 | 2021-03-31 01:22:49 | 23                                      |
| CcU-2938 | 2021-04-01 07:27:49 | 24                                      |
| CcU-3407 | 2021-04-02 05:17:46 | 25                                      |
| CcU-4660 | 2021-04-03 02:46:06 | 26                                      |
| CcU-2959 | 2021-04-04 04:51:04 | 27                                      |
| CcU-2959 | 2021-04-04 11:53:52 | 28                                      |
| CcU-4191 | 2021-04-05 07:39:08 | 29                                      |
| CcU-4695 | 2021-04-06 17:06:22 | 30                                      |
| CcU-2994 | 2021-04-06 17:24:44 | 31                                      |
| CcU-3316 | 2021-04-07 19:18:12 | 32                                      |

Result 4   Read Only

Query Completed

I am el partition by

Local instance 3306 - Warning - not supported

Administration Schemas

SCHEMAS Filter objects

modelat\_sql\_roser

- Tables
  - Companies
  - Credit\_cards
  - Transactions
- Columns
  - id
  - card\_id
  - business\_id
  - timestamp
  - amount
  - declined
  - product\_ids
  - user\_id
  - lat
  - longitude
- Indexes
- Foreign Keys

Object Info Session

No object selected

```

1 •  SELECT card_id, timestamp, ROW_NUMBER () over (partition by card_id order by timestamp)
2   FROM transactions;
3

```

Result Grid Filter Rows: Search Export:

| card_id  | timestamp           | ROW_NUMBER () over (partition by card_id o...) |
|----------|---------------------|--|
| CcU-4856 | 2021-08-11 02:02:29 | 1  |
| CcU-4849 | 2021-03-23 03:02:51 | 1  |
| CcU-4849 | 2021-05-13 14:26:17 | 2  |
| CcU-4849 | 2021-05-30 15:11:57 | 3  |
| CcU-4849 | 2021-06-15 06:26:04 | 4  |
| CcU-4849 | 2021-06-22 05:50:31 | 5  |
| CcU-4849 | 2021-06-26 05:28:26 | 6  |
| CcU-4849 | 2021-06-26 15:52:41 | 7  |
| CcU-4849 | 2021-08-01 14:00:12 | 8  |
| CcU-4849 | 2021-08-04 04:44:35 | 9  |
| CcU-4849 | 2021-09-16 23:56:49 | 10   |
| CcU-4849 | 2021-09-24 18:55:25 | 11   |
| CcU-4849 | 2021-09-30 22:52:36 | 12   |
| CcU-4849 | 2021-10-17 08:16:53 | 13   |
| CcU-4849 | 2021-10-20 16:28:26 | 14   |
| CcU-4849 | 2021-10-28 17:33:51 | 15   |
| CcU-4849 | 2021-11-09 21:35:40 | 16   |
| CcU-4849 | 2021-11-10 19:14:50 | 17   |
| CcU-4849 | 2021-11-15 05:54:23 | 18   |
| CcU-4849 | 2021-12-17 00:04:32 | 19   |
| CcU-4849 | 2021-12-20 23:43:02 | 20   |
| CcU-4849 | 2021-12-31 00:29:42 | 21   |
| CcU-4849 | 2022-01-10 19:27:25 | 22   |
| CcU-4849 | 2022-01-24 12:46:20 | 23   |
| CcU-4849 | 2022-02-07 14:46:24 | 24   |
| CcU-4849 | 2022-02-19 20:33:36 | 25   |
| CcU-4849 | 2022-02-26 17:04:53 | 26   |
| CcU-4849 | 2022-03-02 02:21:42 | 27   |
| CcU-4849 | 2022-03-08 05:02:19 | 28   |
| CcU-4849 | 2022-03-14 09:23:10 | 29   |
| CcU-4842 | 2021-11-01 20:12:07 | 1  |
| CcU-4835 | 2022-02-15 09:54:40 | 1  |

Result 5 Read Only

Query Completed

## Busquem les targetes que tenen més de 2 transaccions

Local instance 3306 (modelat\_sql\_roser) - Warning - not supported

Administration Schemas

SCHEMAS Filter objects

modelat\_sql\_roser

- Tables
  - Companies
  - Credit\_cards
  - Transactions
- Columns
  - id
  - card\_id
  - business\_id
  - timestamp
  - amount
  - declined
  - product\_ids
  - user\_id
  - lat
  - longitude
- Indexes
- Foreign Keys

Object Info Session

No object selected

```

1 •  Select card_id, COUNT(id)
2   FROM transactions
3   GROUP BY card_id
4   HAVING COUNT(id) > 2;

```

Result Grid Filter Rows: Search Export:

| card_id  | COUNT(id) |
|----------|-----------|
| CcU-2938 | 24        |
| CcU-2959 | 38        |
| CcU-2994 | 39        |
| CcU-3393 | 22        |
| CcU-3981 | 17        |
| CcU-4093 | 5         |
| CcU-4191 | 25        |
| CcU-4219 | 39        |
| CcU-4849 | 29        |

Result 3 Read Only

Action Output

| Time        | Action  | Response          | Duration / Fetch Time   |
|-------------|---|-------------------|-------------------------|
| 20 12:16:49 | Select card_id, COUNT(id) FROM transactions GROUP BY card_id HAVING COUNT(id) > 2 | 9 row(s) returned | 0.0012 sec / 0.00001... |

Query Completed

I les transaccions només d'aquestes targetes que tenen més de 2 transaccions, ordenades cronològicament

I ja és més fàcil comprovar que el ROW NUMBER està fent el que volíem

The screenshot shows the MySQL Workbench application. The title bar indicates "Local instance 3306 (modelat\_sql\_rosser) - Warning - not supported". The main window has tabs for Administration, Schemas, and the current object. The Schemas tab is selected, showing the schema "modelat\_sql\_rosser" which contains tables like companies, credit\_cards, transactions, and columns such as id, card\_id, business\_id, timestamp, amount, declined, product\_ids, user\_id, lat, and longitude. Below the schema tree, there are sections for Indexes and Foreign Keys.

The central area displays a query editor with the following SQL code:

```
1
2 • SELECT card_id, timestamp, ROW_NUMBER () over (partition by card_id order by timestamp)
3   FROM transactions
4 • WHERE card_id in (SELECT card_id
5     FROM transactions
6     WHERE card_id in (Select card_id
7       FROM transactions
8       GROUP BY card_id
9       HAVING COUNT(id) > 2)
10      ORDER BY timestamp DESC)
11
12 ;
```

The result grid shows the output of the query, listing card IDs, timestamps, and their row numbers. The results are as follows:

| card_id   | timestamp           | ROW_NUMBER () over (partition by card_id o...) |
|-----------|---------------------|--|
| CctU-2938 | 2021-09-18 00:31:49 | 17   |
| CctU-2938 | 2021-09-24 08:33:44 | 18   |
| CctU-2938 | 2021-09-24 08:33:45 | 19   |
| CctU-2938 | 2021-10-17 03:52:48 | 20   |
| CctU-2938 | 2021-10-24 01:29:53 | 21   |
| CctU-2938 | 2022-02-24 11:01:42 | 22   |
| CctU-2938 | 2022-03-09 20:53:59 | 23   |
| CctU-2938 | 2022-03-12 09:23:10 | 24   |
| CctU-2959 | 2021-04-04 04:51:04 | 1  |
| CctU-2959 | 2021-04-04 11:53:52 | 2  |
| CctU-2959 | 2021-04-14 16:55:53 | 3  |
| CctU-2959 | 2021-04-15 13:37:18 | 4  |
| CctU-2959 | 2021-04-16 06:35:20 | 5  |
| CctU-2959 | 2021-04-17 05:30:17 | 6  |
| CctU-2959 | 2021-04-21 23:05:57 | 7  |
| CctU-2959 | 2021-04-22 22:03:25 | 8  |
| CctU-2959 | 2021-04-29 07:06:10 | 9  |
| CctU-2959 | 2021-05-23 02:46:05 | 10   |

The bottom status bar shows the query completed with a duration of 0.0051 sec / 0.00000... ms.

Ara treiem la llista de les últimes transaccions per tarjeta, però només per a les tarjetes amb tres o més transaccions

The screenshot shows the MySQL Workbench interface with a query editor and results grid. The query retrieves the last three transactions for each card\_id from the transactions table, ordered by timestamp.

```

1
2
3 • SELECT *
4   FROM (SELECT card_id, timestamp, declined, ROW_NUMBER () over (partition by card_id order by timestamp) AS ultimas_transacciones
5     FROM transactions) AS nr_transaccion
6   WHERE ultimas_transacciones <=3;
7

```

The results grid displays the following data:

| card_id  | timestamp           | declined | ultimas_transacciones |
|----------|---------------------|----------|-----------------------|
| CcU-2988 | 2021-08-22 01:12:00 | 0        | 1                     |
| CcU-2988 | 2021-08-28 05:01:44 | 0        | 2                     |
| CcU-2988 | 2021-04-01 07:27:49 | 0        | 3                     |
| CcU-2945 | 2021-06-15 00:26:29 | 1        | 1                     |
| CcU-2945 | 2022-02-04 15:52:56 | 0        | 2                     |
| CcU-2952 | 2021-05-06 05:33:39 | 1        | 1                     |
| CcU-2952 | 2022-01-30 15:16:36 | 0        | 2                     |
| CcU-2959 | 2021-04-04 04:51:04 | 0        | 1                     |
| CcU-2959 | 2021-04-04 11:53:52 | 0        | 2                     |
| CcU-2959 | 2021-04-14 16:55:05 | 0        | 3                     |
| CcU-2966 | 2021-06-02 06:19:00 | 1        | 1                     |
| CcU-2966 | 2021-10-18 00:12:03 | 0        | 2                     |
| CcU-2973 | 2021-01-05 09:44:41 | 1        | 1                     |
| CcU-2973 | 2022-01-05 01:44:48 | 0        | 2                     |
| CcU-2980 | 2021-08-10 09:14:49 | 0        | 1                     |
| CcU-2980 | 2022-03-05 20:41:20 | 1        | 2                     |
| CcU-2987 | 2021-05-18 12:03:25 | 1        | 1                     |
| CcU-2987 | 2022-01-06 21:25:27 | 0        | 2                     |
| CcU-2994 | 2021-04-06 17:24:44 | 0        | 1                     |
| CcU-2994 | 2021-04-23 13:07:58 | 0        | 2                     |
| CcU-2994 | 2021-04-25 19:11:52 | 0        | 3                     |
| CcU-3001 | 2021-10-13 11:30:20 | 1        | 1                     |
| CcU-3001 | 2021-12-20 02:01:10 | 0        | 2                     |
| CcU-3008 | 2021-03-29 16:15:13 | 1        | 1                     |

Execution Plan:

| Action Output | Time     | Action   | Response            | Duration / Fetch Time   |
|---------------|----------|--|---------------------|-------------------------|
| 55            | 12:43:41 | SELECT * FROM (SELECT card_id, timestamp, declined, ROW_NUMBER () over (partition... | 376 row(s) returned | 0.0052 sec / 0.00005... |

Query Completed

I sumem el total dels resultats de declined per a cada targeta.

Local instance 3306 (modelat\_sql\_roser) - Warning - not supported

Administration Schemas

SCHEMAS Filter objects

modelat\_sql\_roser

- Tables
  - companies
  - credit\_cards
  - transactions
  - Columns
    - id
    - card\_id
    - business\_id
    - timestamp
    - amount
    - declined
    - product\_ids
    - user\_id
    - lat
    - longitude
- Indexes
- Foreign Keys

Object Info Session

No object selected

```

1
2 •   SELECT card_id, SUM(declined) AS total_declined_3ultimas_trans
3   FROM (SELECT card_id, timestamp, declined, ROW_NUMBER () over (partition by card_id order by timestamp) AS ultimas_transacciones
4   FROM transactions) AS nr_transaccion
5   WHERE ultimas_transacciones <=3
6   GROUP BY card_id
7   ORDER BY card_id ASC;
8

```

Result Grid Filter Rows: Search Export:

| card_id  | total_declined_3ultimas_trans |
|----------|-------------------------------|
| CcU-2938 | 0                             |
| CcU-2955 | 1                             |
| CcU-2952 | 1                             |
| CcU-2959 | 0                             |
| CcU-2966 | 1                             |
| CcU-2973 | 1                             |
| CcU-2980 | 1                             |
| CcU-2987 | 1                             |
| CcU-2994 | 0                             |
| CcU-3001 | 1                             |
| CcU-3008 | 1                             |
| CcU-3015 | 1                             |
| CcU-3022 | 1                             |
| CcU-3029 | 1                             |
| CcU-3056 | 1                             |
| CcU-3063 | 1                             |
| CcU-3050 | 1                             |
| CcU-3057 | 1                             |
| CcU-3064 | 1                             |
| CcU-3071 | 1                             |
| CcU-3078 | 1                             |
| CcU-3085 | 1                             |

Result 22

Action Output

| Time        | Action  | Response            | Duration / Fetch Time   |
|-------------|---|---------------------|-------------------------|
| 73 13:05:22 | SELECT card_id, SUM(declined) AS total_declined_3ultimas_trans FROM (SELECT card_id, timestamp, declined, ROW_NUMBER () over (partition by card_id order by timestamp) AS ultimas_transacciones) AS nr_transaccion WHERE ultimas_transacciones <=3 GROUP BY card_id ORDER BY card_id ASC; | 275 row(s) returned | 0.0074 sec / 0.00004... |

Query Completed

Ara afegirem la columna d'estat amb el case

Local instance 3306 (modelat\_sql\_roser) - Warning - not supported

Administration Schemas

SCHEMAS Filter objects

modelat\_sql\_roser

- Tables
  - companies
  - credit\_cards
  - transactions
  - Columns
    - id
    - card\_id
    - business\_id
    - timestamp
    - amount
    - declined
    - product\_ids
    - user\_id
    - lat
    - longitude
- Indexes
- Foreign Keys

Object Info Session

No object selected

```

1
2
3 # ordre_transaccions = numeració de últimes transaccions per targeta, on 1 es la última transacció, 2 penúltima, etc
4 # taula_ordre_transaccions = taula amb les transaccions ordenades de més recent a més antiga
5
6 # estat_en_numero = estat de la targeta en el 3 vol dir que la targeta està inactiva. Un 2, 1 o 0 que està activa.
7 # taula_estat_en_numero = taula que mostra l'estat de les targetes a través del número
8
9 •   SELECT card_id, estat_en_numero
10  FROM (SELECT card_id, SUM(declined) AS estat_en_numero
11    FROM (SELECT card_id, timestamp, declined, ROW_NUMBER () over (partition by card_id order by timestamp) AS ordre_transaccions
12    FROM transactions) AS taula_ordre_transaccions
13   WHERE ordre_transaccions <=3
14   GROUP BY card_id
15   ORDER BY card_id ASC) AS taula_estat_en_numero
16
17 ;
18

```

Result Grid Filter Rows: Search Export:

| card_id  | estat_en_numero |
|----------|-----------------|
| CcU-2952 | 1               |
| CcU-2959 | 0               |
| CcU-2966 | 1               |
| CcU-2973 | 1               |
| CcU-2980 | 1               |
| CcU-2987 | 1               |
| CcU-2994 | 0               |
| CcU-3001 | 1               |
| CcU-3008 | 1               |
| CcU-3015 | 1               |

Result 6

Action Output

| Time        | Action   | Response            | Duration / Fetch Time   |
|-------------|--|---------------------|-------------------------|
| 81 13:57:56 | SELECT card_id, estat_en_numero FROM (SELECT card_id, SUM(declined) AS estat_en_numero FROM (SELECT card_id, timestamp, declined, ROW_NUMBER () over (partition by card_id order by timestamp) AS ordre_transaccions) AS taula_ordre_transaccions WHERE ordre_transaccions <=3 GROUP BY card_id ORDER BY card_id ASC) AS taula_estat_en_numero | 275 row(s) returned | 0.0075 sec / 0.00003... |

Query Completed

Li fiquem la columna d'estat

The screenshot shows the MySQL Workbench interface. The top navigation bar displays "Local instance 3306 (modelat\_sql\_rosser) - Warning - not supported". The left sidebar shows the database schema with tables like companies, credit\_cards, and transactions. The main area contains a SQL editor with the following query:

```
1
2
3 # ordre_transaccions = numeració de últimes transaccions per targeta, on 1 és la última transacció, 2 penúltima, etc
4 # taula_ordre_transaccions = taula amb les transaccions ordenades de més recent a més antiga
5
6 # estat_en_numero = estat de la targeta en el 3 vol dir que la targeta està inactiva. Un 2, 1 o 0 que està activa.
7 # taula_estat_en_numero = taula que mostra l'estat de les targetes a través del número
8
9 • SELECT card_id, estat_en_numero,
10 CASE
11 When estat_en_numero = 3 Then 'Inactiva'
12 Else 'Activa'
13 end AS Status
14 FROM (SELECT card_id, SUM(declined) AS estat_en_numero
15 FROM (SELECT card_id, timestamp, declined, ROW_NUMBER () over (partition by card_id order by timestamp) AS ordre_transaccions
16 FROM transactions) AS taula_ordre_transaccions
17 WHERE ordre_transaccions <=3
18 GROUP BY card_id
19 ORDER BY card_id ASC) AS taula_estat_en_numero
20
21 ;
22
```

The status bar at the bottom indicates 100% completion and 33:39 execution time. Below the editor is a "Result Grid" section with the following data:

| card_id    | estat_en_numero | Status |
|------------|-----------------|--------|
| CcU-2938   | 0               | Activa |
| CcU-2945   | 1               | Activa |
| CcU-2952   | 1               | Activa |
| CcU-2959   | 0               | Activa |
| CcU-2966   | 1               | Activa |
| total rows | 7               | Activa |

On the right side, there are "Result Grid" and "Form Editor" buttons, and a "Read Only" checkbox is checked.

At the bottom, the "Action Output" section shows the executed query and its duration:

| Action | Time     | Action   | Response            | Duration / Fetch Time   |
|--------|----------|--|---------------------|-------------------------|
| 82     | 14:00:23 | SELECT card_id, estat_en_numero, CASE When estat_en_numero = 3 Then 'Inactiva' Else... | 275 row(s) returned | 0.0091 sec / 0.00003... |

A "Query Completed" message is at the very bottom.

Li treiem la columnà que ens sobra

Local instance 3306 (modelat\_sql\_roser) - Warning - not supported

Administration Schemas

SCHEMAS

modelat\_sql\_roser

Tables

- companies
- credit\_cards
- transactions

Columns

- id
- card\_id
- business\_id
- timestamp
- amount
- declined
- product\_ids
- user\_id
- lat
- longitude

Indexes

Foreign Keys

Object Info Session

No object selected

```

1
2 •  SELECT card_id,
3   CASE
4     When estat_en_numero = 3 Then 'Inctiva'
5     Else 'Activa'
6   end AS Status
7   FROM (SELECT card_id, SUM(declined) AS estat_en_numero
8         FROM (SELECT card_id, timestamp, declined, ROW_NUMBER () over (partition by card_id order by timestamp) AS ordre_transaccions
9               FROM transactions) AS taula_ordre_transaccions
10      WHERE ordre_transaccions <=3
11      GROUP BY card_id
12    ORDER BY card_id ASC) AS taula_estat_en_numero
13

```

Result Grid

| card_id  | Status |
|----------|--------|
| CcU-2938 | Activa |
| CcU-2945 | Activa |
| CcU-2952 | Activa |
| CcU-2959 | Activa |
| CcU-2966 | Activa |
| CcU-2973 | Activa |
| CcU-2980 | Activa |
| CcU-2987 | Activa |
| CcU-2994 | Activa |
| CcU-3001 | Activa |
| CcU-3008 | Activa |
| CcU-3015 | Activa |
| CcU-3022 | Activa |
| CcU-3029 | Activa |
| CcU-3036 | Activa |
| CcU-3043 | Activa |
| CcU-3050 | Activa |

Action Output

| Time        | Action  | Response            | Duration / Fetch Time   |
|-------------|---|---------------------|-------------------------|
| 92 17:44:55 | SELECT card_id, CASE When estat_en_numero = 3 Then 'Inctiva' Else 'Activa'... | 275 row(s) returned | 0.0049 sec / 0.00002... |

Query Completed

Finalment, ho convertirem en una vista en comptes de taula. Així, si s'afegeixen transaccions s'actualitzaran els estatus automàticament

The screenshot shows the MySQL Workbench interface. On the left, the 'Schemas' tree view is open, showing the 'modelat\_sql\_roser' schema with its tables ('companies', 'credit\_cards', 'transactions', 'users'), views ('estat\_targetes'), stored procedures, functions, and other objects like 'sakila', 'transactions', and 'world'. The 'estat\_targetes' view is selected. On the right, the SQL editor contains the following code:

```
1 2 • CREATE VIEW estat_targetes AS
3   SELECT card_id,
4     CASE
5       When estat_en_numero = 3 Then 'Inctiva'
6       Else 'Activa'
7     end AS Status
8   FROM (SELECT card_id, timestamp, declined, ROW_NUMBER () over (partition by card_id order by timestamp) AS ordre_transaccions
9         FROM transactions) AS taula_ordre_transaccions
10  WHERE ordre_transaccions <=3
11  GROUP BY card_id
12  ORDER BY card_id ASC AS taula_estat_en_numero
13
14 ;
15
```

The 'Object Info' tab is selected at the bottom left, showing the view definition. The 'Session' tab is also present. At the bottom, the 'Action Output' section shows the execution results:

| Action | Time     | Action  | Response          | Duration / Fetch Time |
|--------|----------|---|-------------------|-----------------------|
| 93     | 17:56:33 | CREATE VIEW estat_targetes AS SELECT card_id, CASE When estat_en_num... | 0 row(s) affected | 0.068 sec             |

Query Completed

## Exercici 1: targetes actives

Quantes targetes estan actives?

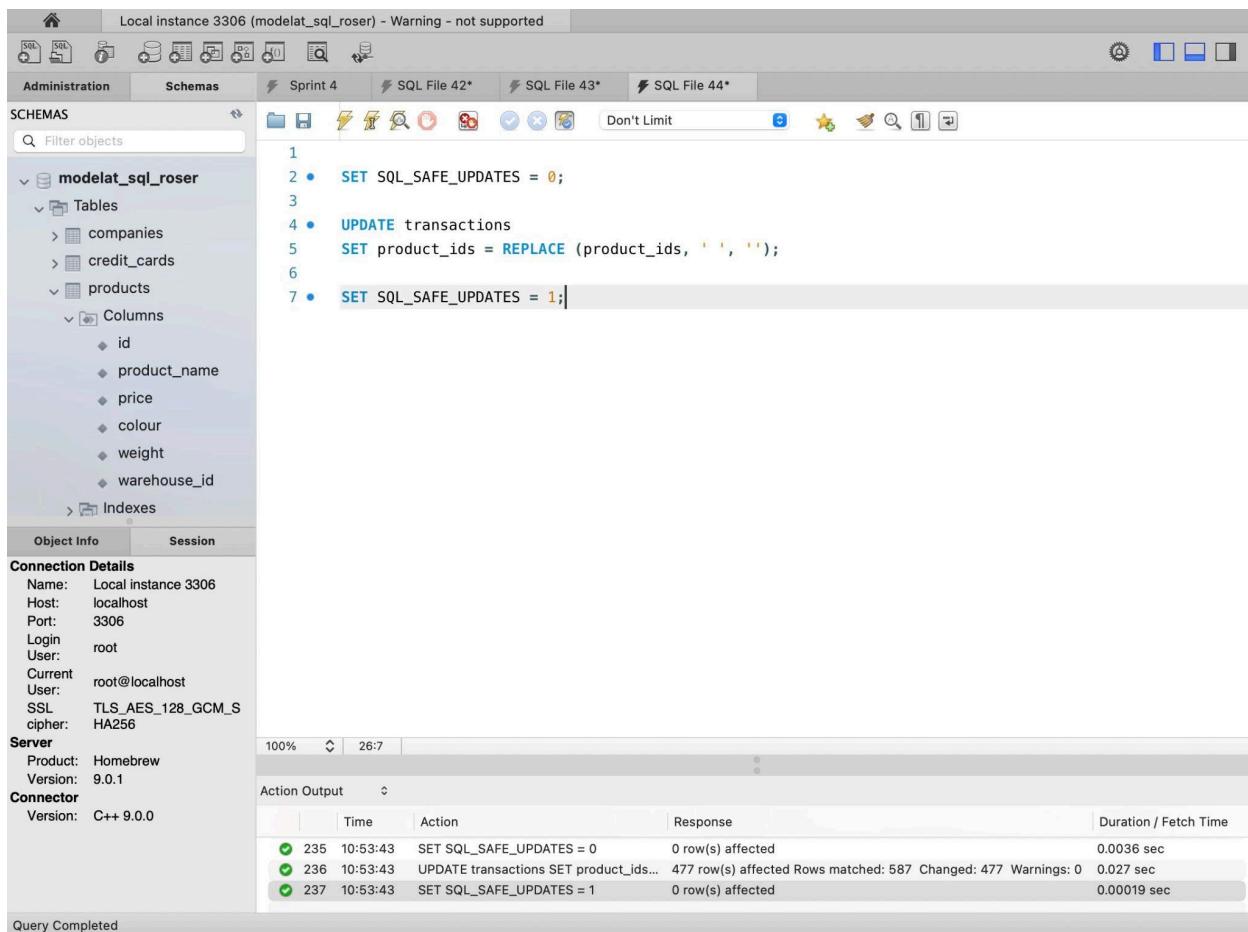
Totes les targetes estan actives

# Nivell 3

Crea una taula amb la qual puguem unir les dades del nou arxiu products.csv amb la base de dades creada, tenint en compte que des de transaction tens product\_ids. Genera la següent consulta:

Per a poder unir el nou arxiu, necessitem una taula pont que indexi les relacions entre transaccions i productes.

## - Reemplaçar espais



The screenshot shows the MySQL Workbench interface. The left sidebar displays the schema structure for 'modelat\_sql\_roser'. The 'Tables' section contains 'companies', 'credit\_cards', 'products', and 'Indexes'. The 'Products' table has columns: id, product\_name, price, colour, weight, and warehouse\_id. The right pane shows the SQL editor with the following code:

```
1
2 • SET SQL_SAFE_UPDATES = 0;
3
4 • UPDATE transactions
5   SET product_ids = REPLACE (product_ids, ' ', ',');
6
7 • SET SQL_SAFE_UPDATES = 1;
```

Below the editor is the 'Object Info' tab, which shows connection details: Name: Local instance 3306, Host: localhost, Port: 3306, Login User: root, Current User: root@localhost, SSL: TLS\_AES\_128\_GCM\_S, cipher: HA256. The 'Session' tab is also visible. At the bottom, the 'Server' and 'Connector' sections provide information about the MySQL server and connector version. The results pane shows the execution log:

| Action  | Time | Response   | Duration / Fetch Time |
|---|------|--|-----------------------|
| 235 10:53:43 SET SQL_SAFE_UPDATES = 0               |      | 0 row(s) affected  | 0.0036 sec            |
| 236 10:53:43 UPDATE transactions SET product_ids... |      | 477 row(s) affected Rows matched: 587 Changed: 477 Warnings: 0 | 0.027 sec             |
| 237 10:53:43 SET SQL_SAFE_UPDATES = 1               |      | 0 row(s) affected  | 0.00019 sec           |

Query Completed

## - Carregar taula productes

Creem la taula productes

The screenshot shows the MySQL Workbench interface with the following details:

- Connection:** Local instance 3306 (modelat\_sql\_rosen) - Warning - not supported
- Schemas:** modelat\_sql\_rosen
- Tables:** products
- Object Info:**
  - Connection Details:** Name: Local instance 3306, Host: localhost, Port: 3306, Login: root, Current User: root@localhost, SSL: TLS\_AES\_128\_GCM\_S, cipher: HA256.
  - Server:** Product: Homebrew, Version: 9.0.1
  - Connector:** Version: C++ 9.0.0
- SQL Editor:**

```

1 • CREATE TABLE IF NOT EXISTS products (
2   id VARCHAR(15) PRIMARY KEY
3 );
4

```
- Action Output:**

| Action    | Time     | Response          | Duration / Fetch Time |
|-----------|----------|-------------------|-----------------------|
| CREATE... | 15:42:42 | 0 row(s) affected | 0.0100 sec            |

## Li afegim les columnes

The screenshot shows the MySQL Workbench interface with the following details:

- Connection:** Local instance 3306 (modelat\_sql\_rosen) - Warning - not supported
- Schemas:** modelat\_sql\_rosen
- Tables:** products
- Object Info:**
  - Connection Details:** Name: Local instance 3306, Host: localhost, Port: 3306, Login: root, Current User: root@localhost, SSL: TLS\_AES\_128\_GCM\_S, cipher: HA256.
  - Server:** Product: Homebrew, Version: 9.0.1
  - Connector:** Version: C++ 9.0.0
- SQL Editor:**

```

1 • ALTER TABLE products
2   ADD product_name VARCHAR(15),
3   ADD price VARCHAR(15),
4   ADD colour VARCHAR(15),
5   ADD weight FLOAT,
6   ADD warehouse_id VARCHAR(15);
7

```
- Action Output:**

| Action   | Time     | Response   | Duration / Fetch Time |
|----------|----------|--|-----------------------|
| ALTER... | 15:52:51 | 0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0 | 0.0078 sec            |

## I insertem les dades

```

    Local instance 3306 (modelat_sql_rosser) - Warning - not supported

Administration Schemas Sprint 4 SQL File 37* SQL File 38*
SCHEMAS Filter objects
modelat_sql_rosser Tables Don't Limit
  Tables
    companies
    credit_cards
  products Columns
    id
    product_name
    price
    colour
    weight
    warehouse_id
  Indexes
  Foreign Keys

Object Info Session
Connection Details
Name: Local instance 3306
Host: localhost
Port: 3306
Login: root
User: root@localhost
SSL: TLS_AES_128_GCM_S
cipher: HA256
Server
Product: Homebrew
Version: 9.0.1
Connector
Version: C++ 9.0.0
100% 18:4

Action Output
Time Action Response Duration / Fetch Time
198 16:01:19 LOAD D... 0 row(s) affected Records: 0 Deleted: 0 Skipped: 0 Warnings: 0 0.0022 sec

Query Completed
  
```

## Veiem que estiguin bé

```

    Local instance 3306 (modelat_sql_rosser) - Warning - not supported

Administration Schemas Sprint 4* SQL File 37* SQL File 38* products products - Table
SCHEMAS Filter objects
modelat_sql_rosser Tables Don't Limit
  Tables
    companies
    credit_cards
  products Columns
    id
    product_name
    price
    colour
    weight
    warehouse_id
  Indexes
  Foreign Keys

Object Info Session
Connection Details
Name: Local instance 3306
Host: localhost
Port: 3306
Login: root
User: root
Current User: root@localhost
SSL: TLS_AES_128_GCM_SH
cipher: A256
Server
Product: Homebrew
Version: 9.0.1
Connector
Version: C++ 9.0.0
100% 1:2

Result Grid Filter Rows: Search Edit: Export/Import:
  
```

| id  | product_name    | price    | colour  | weight | warehouse_id |
|-----|-----------------|----------|---------|--------|--------------|
| 10  | Karstark Dame   | \$119.52 | #141414 | 2.4    | WH-5         |
| 100 | south duell     | \$40.43  | #6db6d6 | 3      | WH-95        |
| 11  | Karstark Dame   | \$49.70  | #141414 | 2.7    | WH-6         |
| 12  | duel Direwolf   | \$181.60 | #a8a8a8 | 2.1    | WH-7         |
| 14  | Direwolf        | \$147.53 | #4c4c4c | 2      | WH-9         |
| 15  | Stannis warden  | \$194.29 | #dbdbdb | 1.5    | WH-10        |
| 16  | the duel warden | \$180.91 | #666666 | 3      | WH-11        |
| 18  | Karstark warden | \$148.91 | #4c4c4c | 0.8    | WH-13        |
| 19  | dooko solo      | \$60.33  | #3f3f3f | 0.6    | WH-14        |
| 2   | Tarly Stark     | \$9.24   | #919191 | 2      | WH-3         |
| 20  | warden Karstark | \$61.96  | #005555 | 1.4    | WH-15        |
| 21  | duel Direwolf   | \$86.90  | #e2e2e2 | 1.2    | WH-16        |
| 22  | direwolf        | \$167.53 | #4c4c4c | 1.0    | WH-20        |
| 26  | Stark Karstark  | \$53.01  | #898989 | 2      | WH-21        |
| 30  | Karstark warden | \$79.53  | #606060 | 0.8    | WH-25        |
| 31  | Lannister       | \$85.02  | #3f3f3f | 0.6    | WH-26        |
| 32  | north           | \$178.28 | #ffffff | 1.4    | WH-27        |

Action Output

| Time | Action   | Response                                  |
|------|----------|---|
| 209  | 16:04:04 | SELECT * FROM modelat_sql_rosser.products |
|      |          | 59 row(s) returned                        |

Query Completed

## - Llista de productes

Treiem la llista de productes, hi ha 59 i no estan repetits

The screenshot shows the MySQL Workbench interface. In the top navigation bar, the connection is set to "Local Instance 3306 (modelat\_sql\_roser) - Warning - not supported". The tabs "Administration" and "Schemas" are selected. In the "Schemas" tab, the "products" schema is chosen. A search bar at the top right contains the query: "SELECT id FROM products ORDER BY id ASC;". Below the search bar is a "Result Grid" table with one column labeled "id". The results show 59 distinct IDs ranging from 10 to 68. To the right of the result grid is a vertical toolbar with icons for "Result Grid", "Form Editor", "Field Types", and "Query Stats". At the bottom of the interface, there is a "Query Completed" message.

| id  |
|-----|
| 10  |
| 100 |
| 11  |
| 12  |
| 14  |
| 15  |
| 16  |
| 18  |
| 19  |
| 2   |
| 20  |
| 21  |
| 25  |
| 26  |
| 30  |
| 31  |
| 32  |
| 33  |
| 34  |
| 35  |
| 36  |
| 37  |
| 38  |
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| 40  |
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| 62  |
| 63  |
| 64  |
| 65  |
| 66  |
| 67  |
| 68  |

Ara buscarem aquests IDs en la taula de transactions. Primer, només els que no tenen comes:

```

1 •  SELECT id, product_ids
2   from transactions
3   WHERE product_ids NOT LIKE '%,%';

```

| id                                    | product_ids |
|---------------------------------------|-------------|
| 108B1D1D-5B23-A76C-55EF-C568E49A05... | 59          |
| 11ABED97-EA12-1B9A-96FD-A93ACC172179  | 29          |
| 135B2CC-DE62-40D1-9DC5449E0A5F        | 29          |
| 168F5F9E-4E70-45C7-79A4-4AE0EBE200    | 5           |
| 16C07A8-2B6B-7071-A1E4-D712AE732451   | 69          |
| 1981A0B8-7D55-43D7-92BA-14D9495596    | 7           |
| 1B0649AB-TD54-A3E9-DBA-A5D92091CA     | 89          |
| 1B521828-5380-5A86-5364-0E36ASC21B7   | 7           |
| 1B636B88-A2E5-7C69-D9C9-C54535DAFD... | 53          |
| 1FB125A8-0901-63AC-E2B7-349E5974FBAD  | 79          |
| 24EB2B70-3602-FDAB-54D5-9CDF3CA523C   | 2           |
| 2C7D9B68-2629-CAB1-5010-77BD1A74ADA6  | 63          |
| 2C9A4725-4B19-621C-4EE4-AE9E31CFE5B   | 73          |
| 2F499B4D-4DC7-B337-01D8-B7471812A80   | 1           |
| 33525F74-4B64-C19F-7D23-A8D7B666B7C4  | 29          |
| 36CC07CD-F90E-2EE9-5BBB-576A04715373  | 11          |
| 3B37BE91-420F-4361-238A-3C5A42B999F7  | 37          |
| 3C291BE8-C77C-39BA-76F8-7CB74937EC98  | 31          |
| 40EEC56F-C386-1B13-D59A-34216F9694E2  | 5           |

transactions 2

Action Output

| Time         | Action   | Response            | Duration / Fetch Time   |
|--------------|--|---------------------|-------------------------|
| 225 16:15:34 | SELECT id, product_ids from transactions WHERE product_ids NOT LIKE '%,%'; | 110 row(s) returned | 0.0022 sec / 0.00001... |

Query Completed

Find (and insert) los porduct IDs

Utilitzem FIND IN SET Joining Tables Based on Comma-Separated Values

<https://five.co/blog/mysql-find-in-set/>

Local Instance 3306 (modelat\_sql\_roser) - Warning - not supported

Administration   Schemas   Sprint 4\*   SQL File 42\*   SQL File 43\*   SQL File 45\*   SQL File 46\*

Filter objects

SCHEMAS

- id
- card\_id
- business\_id
- timestamp
- amount
- declined
- product\_ids**
- user\_id
- lat
- longitude

Indexes

Foreign Keys

Triggers

users

Object Info   Session

**Connection Details**

- Name: Local instance 3306
- Host: localhost
- Port: 3306
- Login: root
- User: root
- Current User: root@localhost
- SSL: TLS\_AES\_128\_GCM\_S
- cipher: HA256

**Server**

- Product: Homebrew
- Version: 9.0.1

**Connector**

- Version: C++ 9.0.0

```

1
2 •  SELECT transactions.id, products.id
3   FROM products
4   JOIN transactions ON FIND_IN_SET(products.id, transactions.product_ids)
5 ;

```

Result Grid   Filter Rows: Search   Export:

| id                                      | id |
|---|----|
| 02C6201E-090A-1859-B4EE-8BD296603B02    | 71 |
| 02C6201E-090A-1859-B4EE-8BD296603B02    | 19 |
| 0468A42E-47CF-8D24-FD01-C0B888713128    | 97 |
| 0468A42E-47CF-8D24-FD01-C0B888713128    | 47 |
| 0468A42E-47CF-8D24-FD01-C0B888713128    | 43 |
| 063FB7A79-93E9C-6F6FB-29F7-25726D1764A5 | 67 |
| 063FB7A79-93E9C-6F6FB-29F7-25726D1764A5 | 5  |
| 063FB7A79-93E9C-6F6FB-29F7-25726D1764A5 | 47 |
| 063FB7A79-93E9C-6F6FB-29F7-25726D1764A5 | 31 |
| 0668296C-CD9A-4883-76BC-E24C44FC8C...   | 89 |
| 0668296C-CD9A-4883-76BC-E24C44FC8C...   | 83 |
| 06CD9AA5-9B42-0684-DDDD-A5E394FEB...    | 43 |
| 06CD9AA5-9B42-0684-DDDD-A5E394FEB...    | 31 |
| 07A46D48-31A3-7E87-6589-0DA902AD109F    | 47 |
| 09DE92CE-6F27-2B87-13B5-938582B388E2    | 67 |
| 0A476ED9-0C13-19E2-F878-D3563924B539    | 11 |
| 0BEB80B-0D66-1707-C4E8-B0C7E71914B5     | 19 |
| 0C7C3A33-9947-38C1-B46D-7BE3D0D17598    | 89 |
| 0C7C3A33-9947-38C1-B46D-7BE3D0D17598    | 31 |
| 0CE957A6-CCAA-2B7A-6839-AA4B1B324B53    | 83 |
| 0CE957A6-CCAA-2B7A-6839-AA4B1B324B53    | 73 |
| 0CE957A6-CCAA-2B7A-6839-AA4B1B324B53    | 43 |
| 0DD2E608-5C9E-01B3-4999-B99F43AD735A    | 47 |
| 1026D2A4-8929-31F1-8250-D7BA0B05C13D2   | 97 |

Result 1   Read Only

Action Output   Action   Response   Duration / Fetch Time

242 12:21:08   SELECT transactions.id, products.id FROM products JOIN transactions ON FIND\_IN...   723 row(s) returned   0.034 sec / 0.0044 sec

Query Completed

I creem una taula del resultat

The screenshot shows the MySQL Workbench interface. In the left sidebar, under the 'SCHEMAS' section, the schema 'modelat\_sql\_roser' is selected. Inside this schema, the 'Tables' node is expanded, showing tables like 'companies', 'credit\_cards', 'pont\_trans\_prod', 'products', 'transactions', and 'users'. The 'pont\_trans\_prod' table is currently selected. The main pane displays the SQL code for creating this table:

```
1
2 • CREATE TABLE pont_trans_prod AS
3   SELECT transactions.id AS transaccio, products.id AS producte
4   FROM products
5   JOIN transactions ON FIND_IN_SET(products.id, transactions.product_ids)
6 ;
```

Below the SQL pane, the 'Object Info' tab is selected, showing 'Connection Details' and 'Server' information. The 'Connection Details' section includes fields like Name: Local instance 3306, Host: localhost, Port: 3306, Login: root, User: root@localhost, SSL: TLS\_AES\_128\_GCM\_S, and cipher: HA256. The 'Server' section shows Product: Homebrew, Version: 9.0.1, and Connector: C++ 9.0.0. At the bottom, the status bar indicates 'Query Completed'.

Afegim les relacions a les altres taules

Local instance 3306 (modelat\_sql\_rosen) - Warning - not supported

Administration Schemas

SCHEMAS Filter objects

Tables

- > companies
- > credit\_cards
- > pont\_trans\_prod
- Columns
  - transaccio
  - producte
- Indexes
- Foreign Keys
  - fk\_transaccio**
  - Triggers
  - products
  - Columns
    - id

Object Info Session

Connection Details

Name: Local instance 3306  
 Host: localhost  
 Port: 3306  
 Login: root  
 User: root@localhost  
 Current User: root@localhost  
 SSL: TLS\_AES\_128\_GCM\_S  
 cipher: HA256

Server Product: Homebrew Version: 9.0.1

Connector Version: C++ 9.0.0

Action Output 100% 67:2

| Action  | Time         | Response   | Duration / Fetch Time |
|---|--------------|--|-----------------------|
| ALTER TABLE pont_trans_prod ADD CONSTRAINT fk_transaccio foreign key (transaccio) | 245 12:32:12 | 723 row(s) affected Records: 723 Duplicates: 0 Warnings: 0 | 0.051 sec             |

Query Completed

Local instance 3306 (modelat\_sql\_rosen) - Warning - not supported

Administration Schemas

SCHEMAS Filter objects

Tables

- > companies
- > credit\_cards
- > pont\_trans\_prod
- Columns
  - transaccio
  - producte
- Indexes
- Foreign Keys
  - fk\_producte
  - fk\_transaccio**
  - Triggers
  - products
  - Columns

Object Info Session

Connection Details

Name: Local instance 3306  
 Host: localhost  
 Port: 3306  
 Login: root  
 User: root@localhost  
 Current User: root@localhost  
 SSL: TLS\_AES\_128\_GCM\_S  
 cipher: HA256

Server Product: Homebrew Version: 9.0.1

Connector Version: C++ 9.0.0

Action Output 100% 63:2

| Action  | Time         | Response   | Duration / Fetch Time |
|---|--------------|--|-----------------------|
| ALTER TABLE pont_trans_prod ADD CONSTRAINT fk_producte foreign key (producte) | 246 12:33:28 | 723 row(s) affected Records: 723 Duplicates: 0 Warnings: 0 | 0.044 sec             |

Query Completed

## Exercici 1: vendes per producte

Necessitem conèixer el nombre de vegades que s'ha venut cada producte.

COUNT transaction id  
GROUP BY product id  
WHERE declined = 0