

Roser Blasco
Sprint 4
Data
Corregit per XX

Base de dades

Nivell 1

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

Nivell 2

Exercici 1: targetes actives

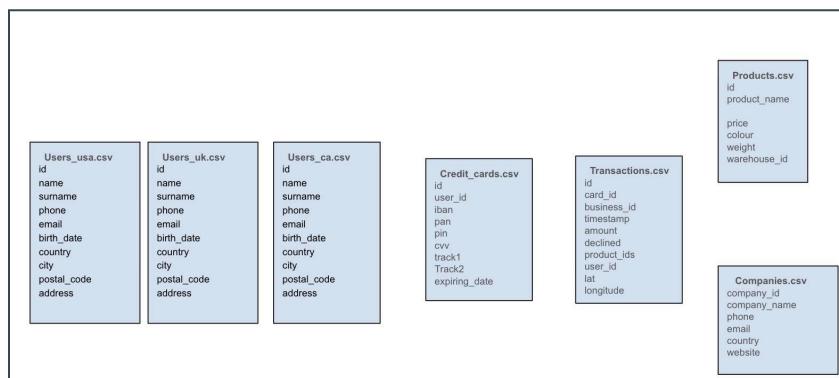
Nivell 3

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 'Full 1' and a green circular icon.

Left Window (Title Bar: 72 %):

- Cells A1 to E1 are highlighted in light green.
- Cells A1 to E1 contain the column headers: id, name, surname, phone, and email.
- Cells A2 to E250 contain data rows, each with five columns corresponding to the headers.

Right Window (Title Bar: 125 %):

- Cells A1 to E1 are highlighted in light green.
- Cells A1 to E1 contain the column headers: id, name, surname, phone, and email.
- Cells A2 to E250 contain data rows, each with five columns corresponding to the headers.

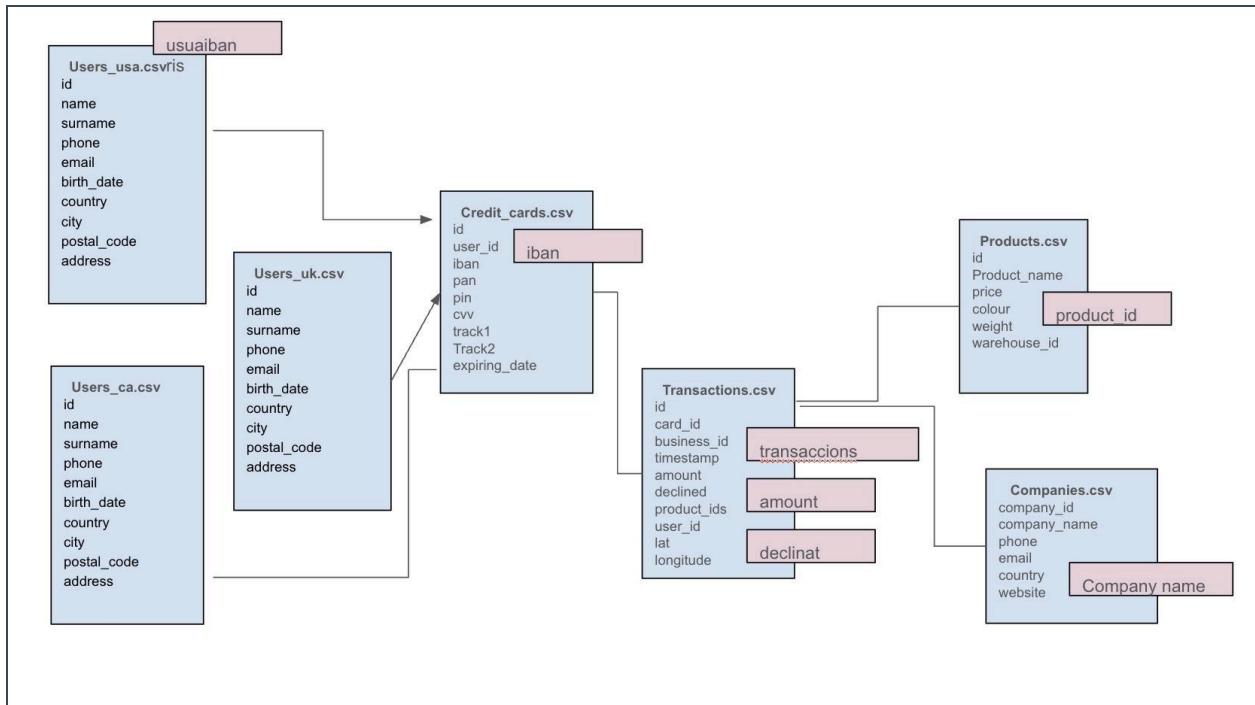
Data Headers (Left Window):

	A	B	C	D	E
--	---	---	---	---	---

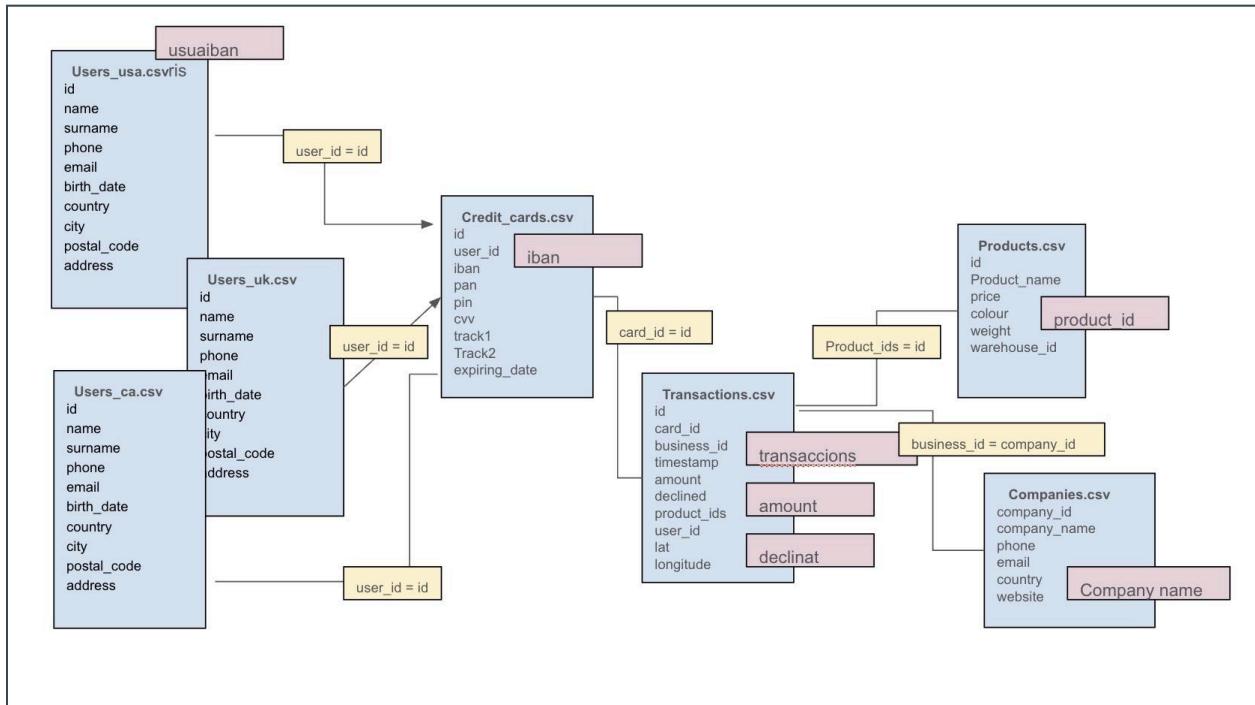
Data Headers (Right Window):

	A	B	C	D
--	---	---	---	---

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

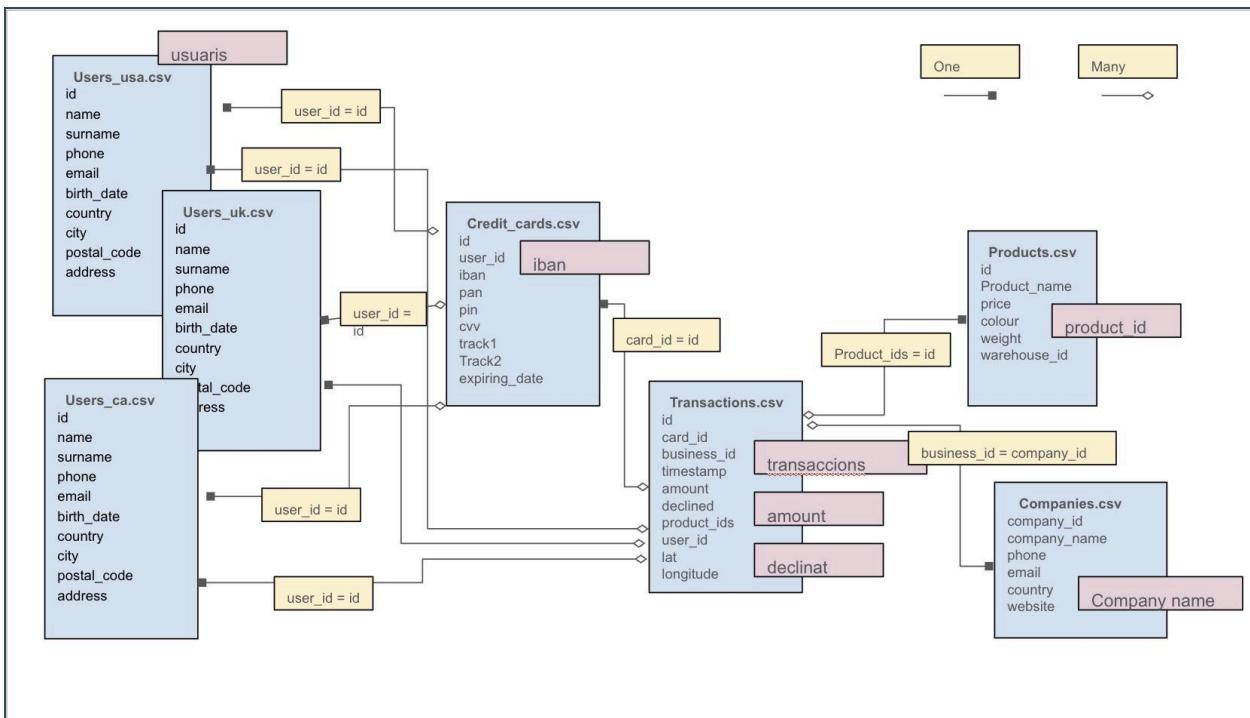


Li afegeixo en groc el qu sospito que relaciona les taules

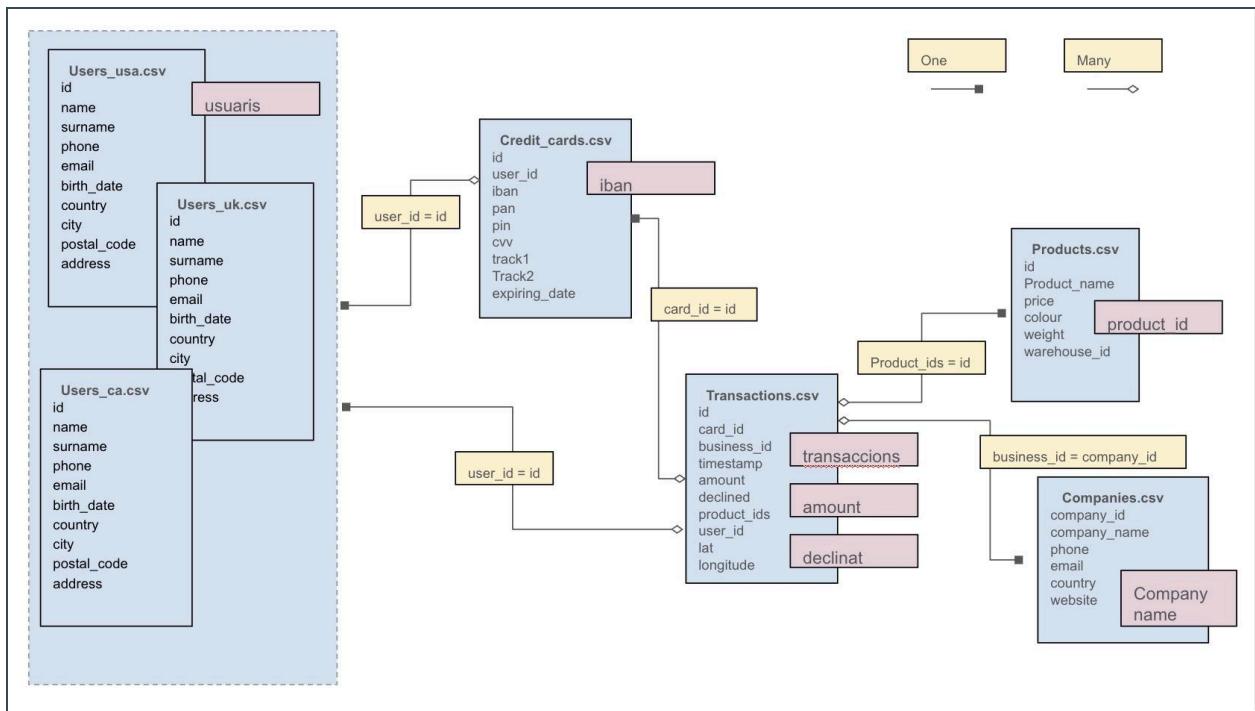


Potser val la pena juntar totes les taules de users i poder simplificar aquesta relació amb credit card per a que sigui de 1 a molts

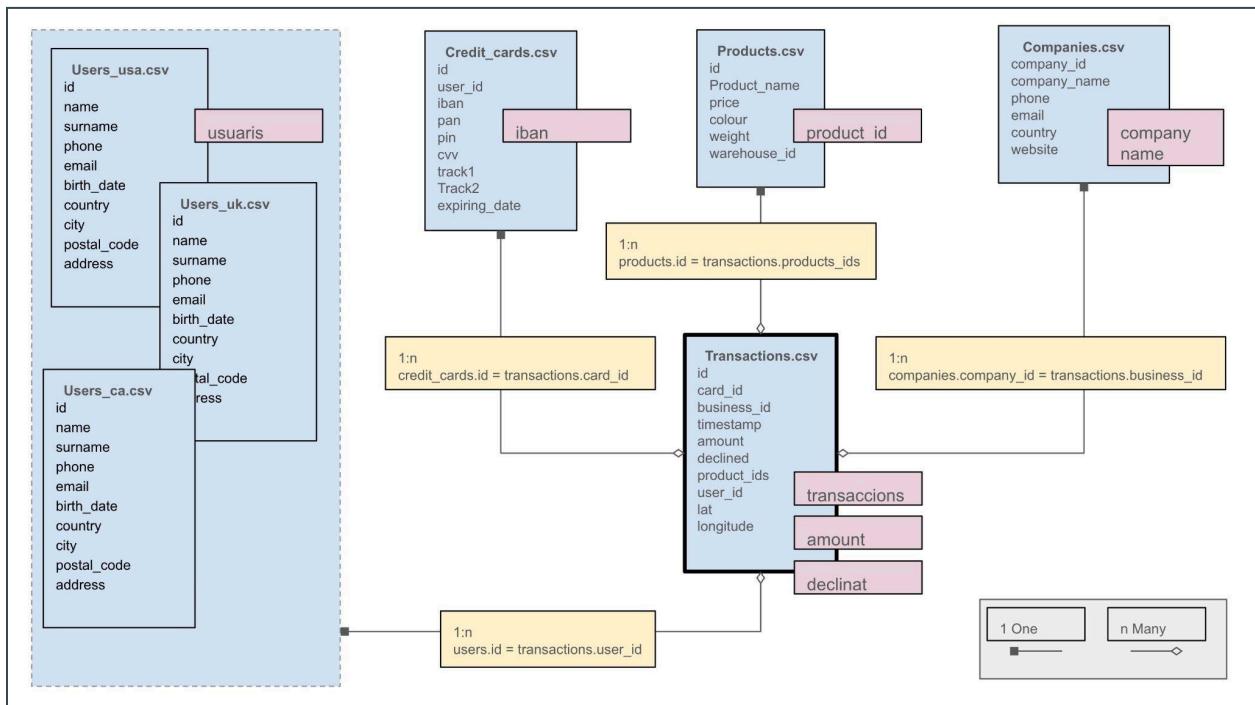
Intentem ser més clars amb les relacions al diagrama. A més, ens hem adonat que el user_id també apareix a transaccions, així que les relacions són encara més complicades



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



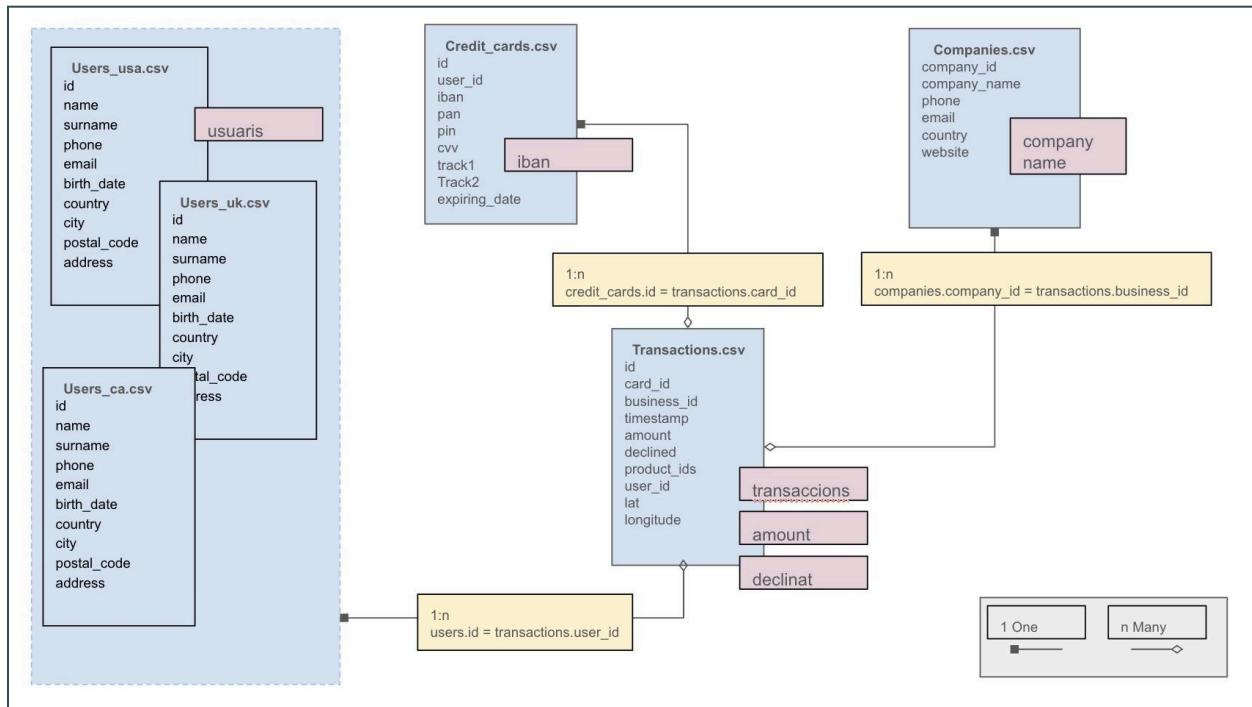
Però aquestes relacions triangulades no són recomanables i a més ens demanen una esquema d'estrella, així que treurem una de les relacions. Potser no ens interessa de qui usuari és realment la targeta, sinó qui usuari la fa servir.



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 SQL script to create tables. The script uses the `modelat_sql_roser` schema and creates four tables: `users`, `credit_cards`, `transactions`, and `companies`. The session log shows the execution of each `CREATE TABLE` statement.

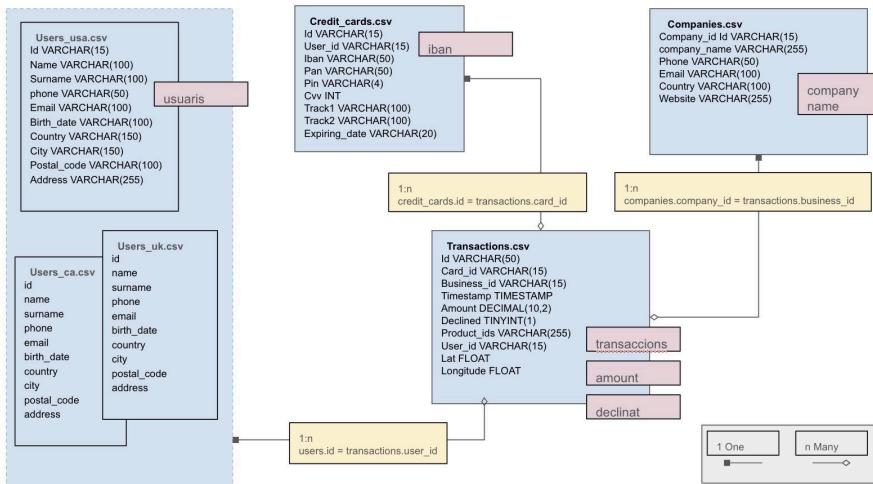
```

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
);

```

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:

id	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

Local instance 3306 - Warning - not supported

Sprint 4* SQL File 10*

Administration Schemas

SCHEMAS

modelat_sql_roser

- Tables
- companies
- Columns
- id
- company_name
- phone
- email
- country
- website

Indexes

Object Info Session

Table: companies

Columns:

id	varchar(15) PK
company_name	varchar(255)
phone	varchar(50)
email	varchar(100)
country	varchar(100)
website	varchar(255)

Action Output

Time	Action	Response	Duration / Fetch Time
16:04:22	ALTER TABLE companies...	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.010 sec

Query Completed

Ara doncs li diem que carregui les dades de transactions

Local instance 3306 - Warning - not supported

Sprint 4* SQL File 11*

Administration Schemas

SCHEMAS

modelat_sql_roser

- Columns
- id
- card_id
- business_id
- timestamp
- amount
- declined
- product_ids
- user_id
- lat
- longitude

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

Action Output

Time	Action	Response	Duration / Fetch Time
16:13:58	LOAD DATA INFILE 'trans...	Error Code: 1290. The MySQL server is running with the --secure-file-priv option so it cannot... 0.0045 sec	0.0045 sec

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 'Transactions' table is selected. On the right, the main workspace displays the results of a SQL query:

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

The results grid shows one row:

Variable_name	Value
secure_file_priv	NULL

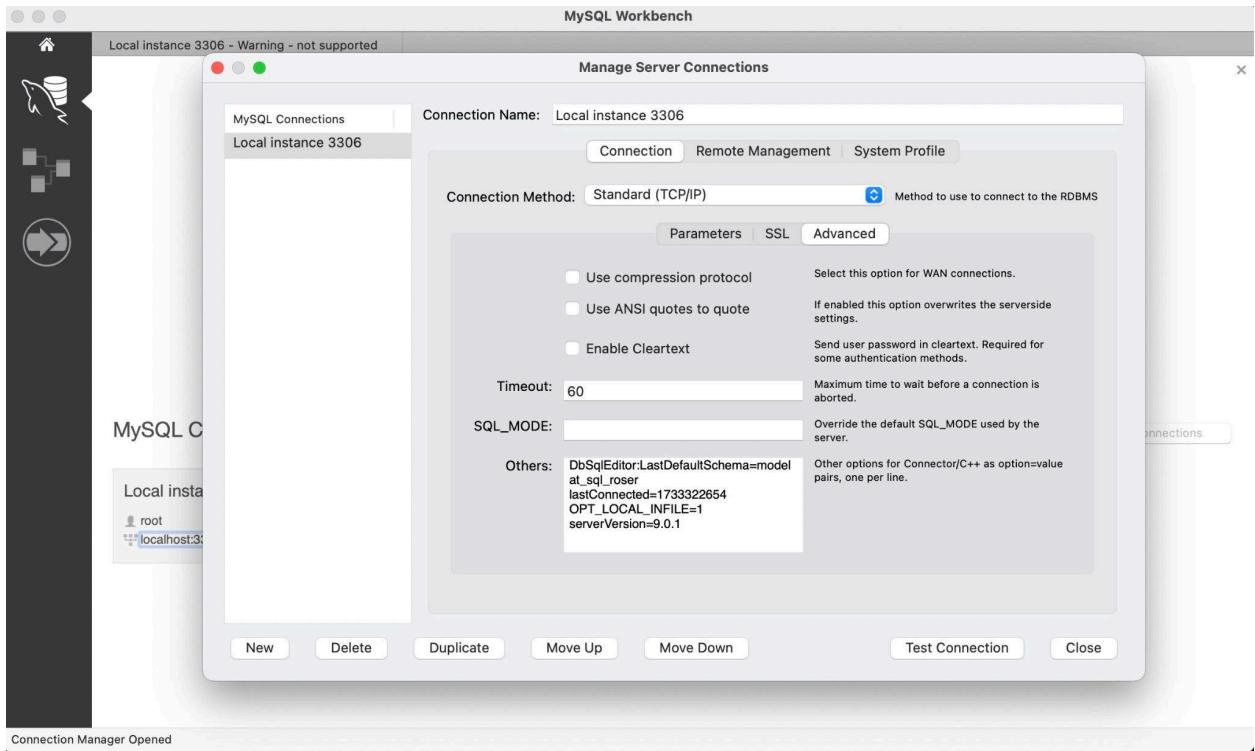
Below the results, the 'Action Output' section shows the query was executed at 16:21:24 and returned 1 row(s) in 0.035 sec / 0.00022... ms.

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

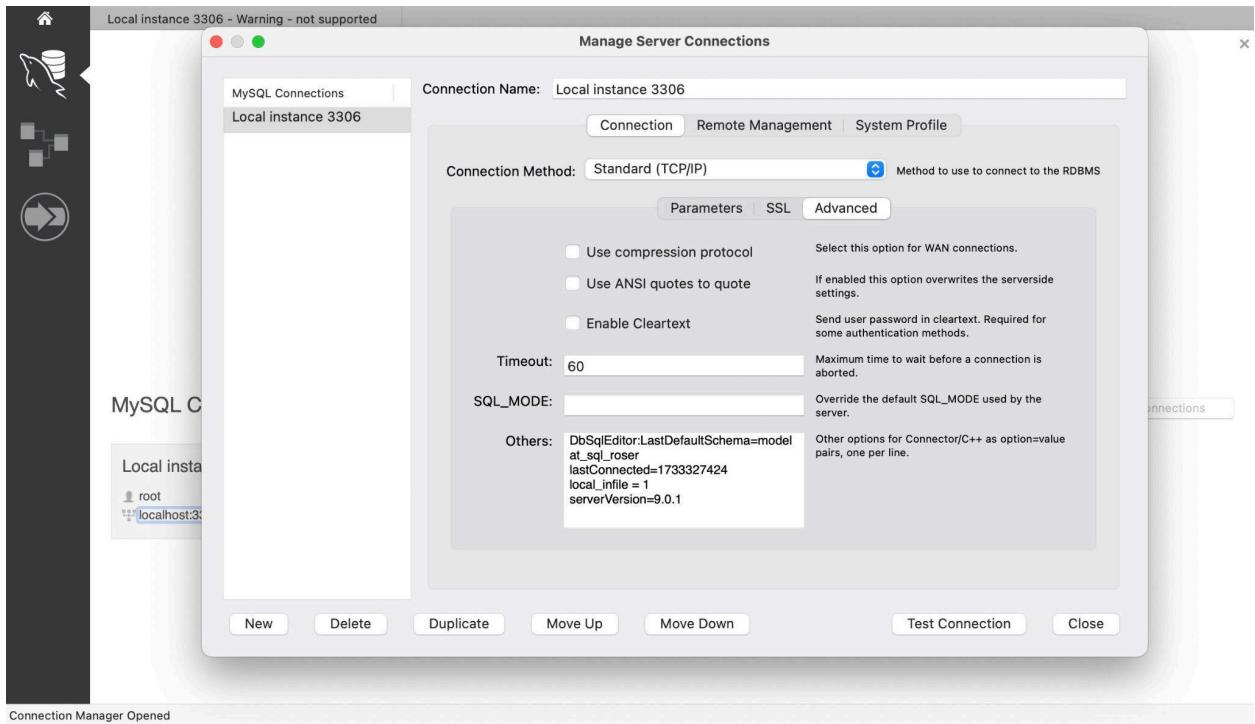
```
1 • LOAD DATA INFILE 'transactions.csv' INTO TABLE transactions;
2
```

Action Output	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



I continua en NULL

Administration Schemas Query 2 SQL File 3* Sprint 4

SCHEMAS

modelat_sql_rosen

Tables Views Stored Procedures

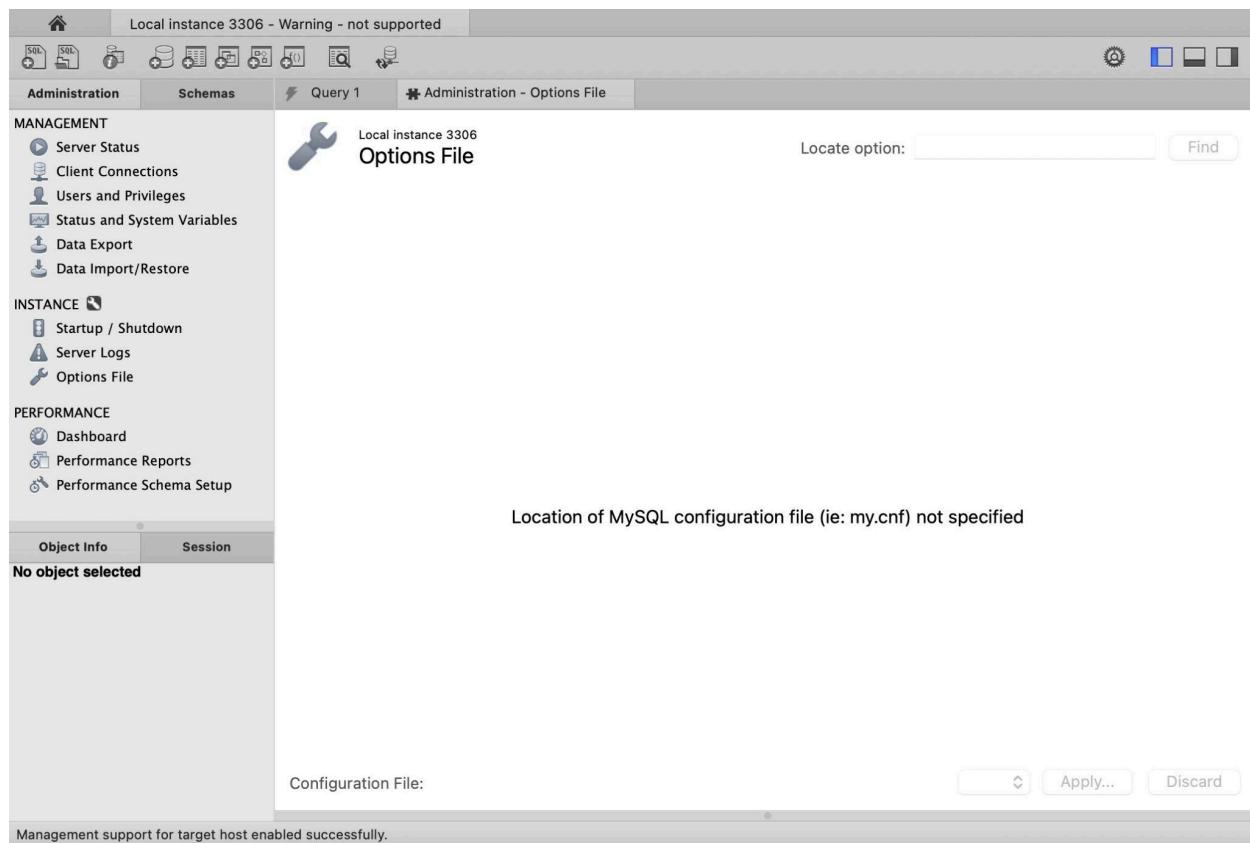
Result Grid

Variable_name	Value
secure_file_priv	NULL

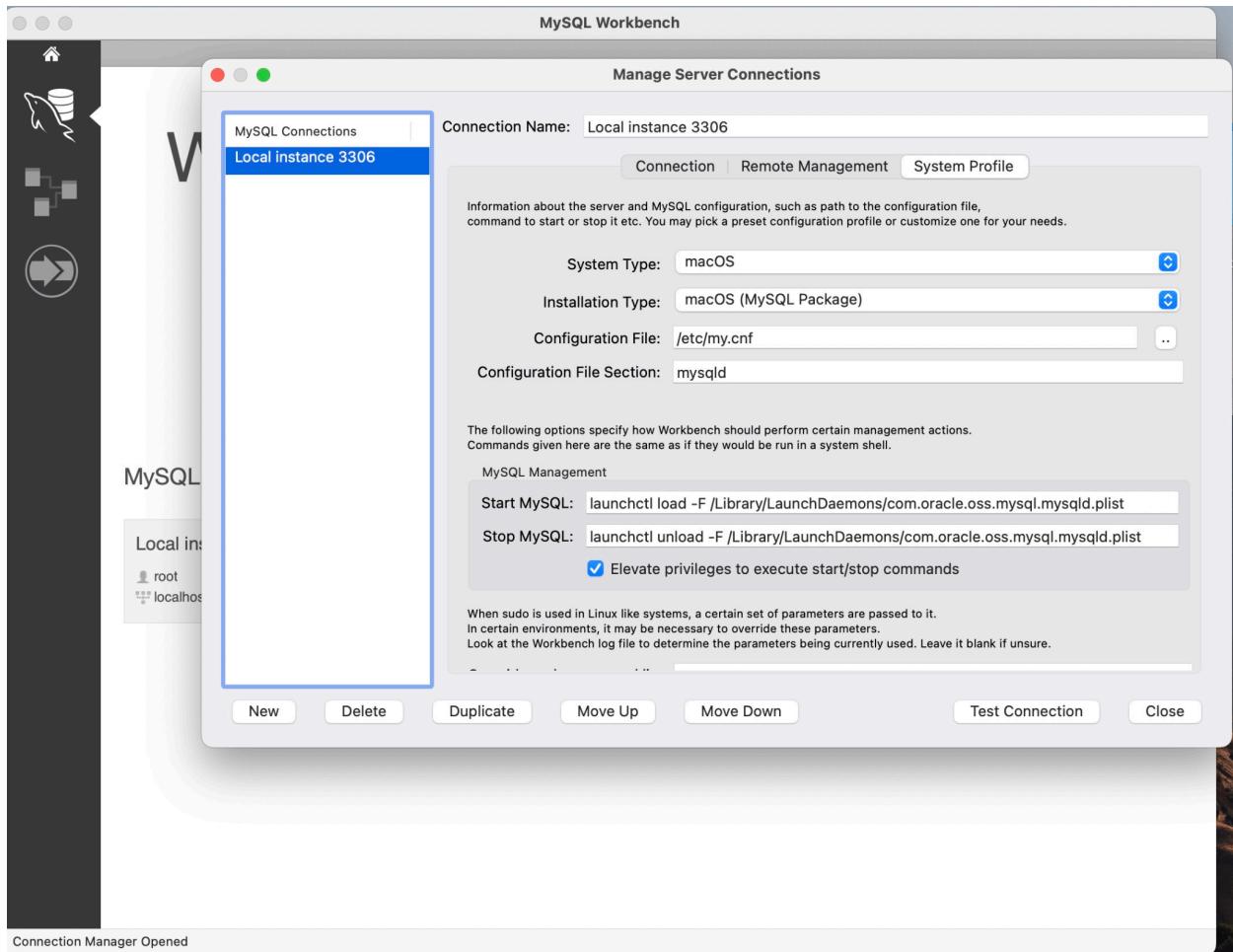
Action Output

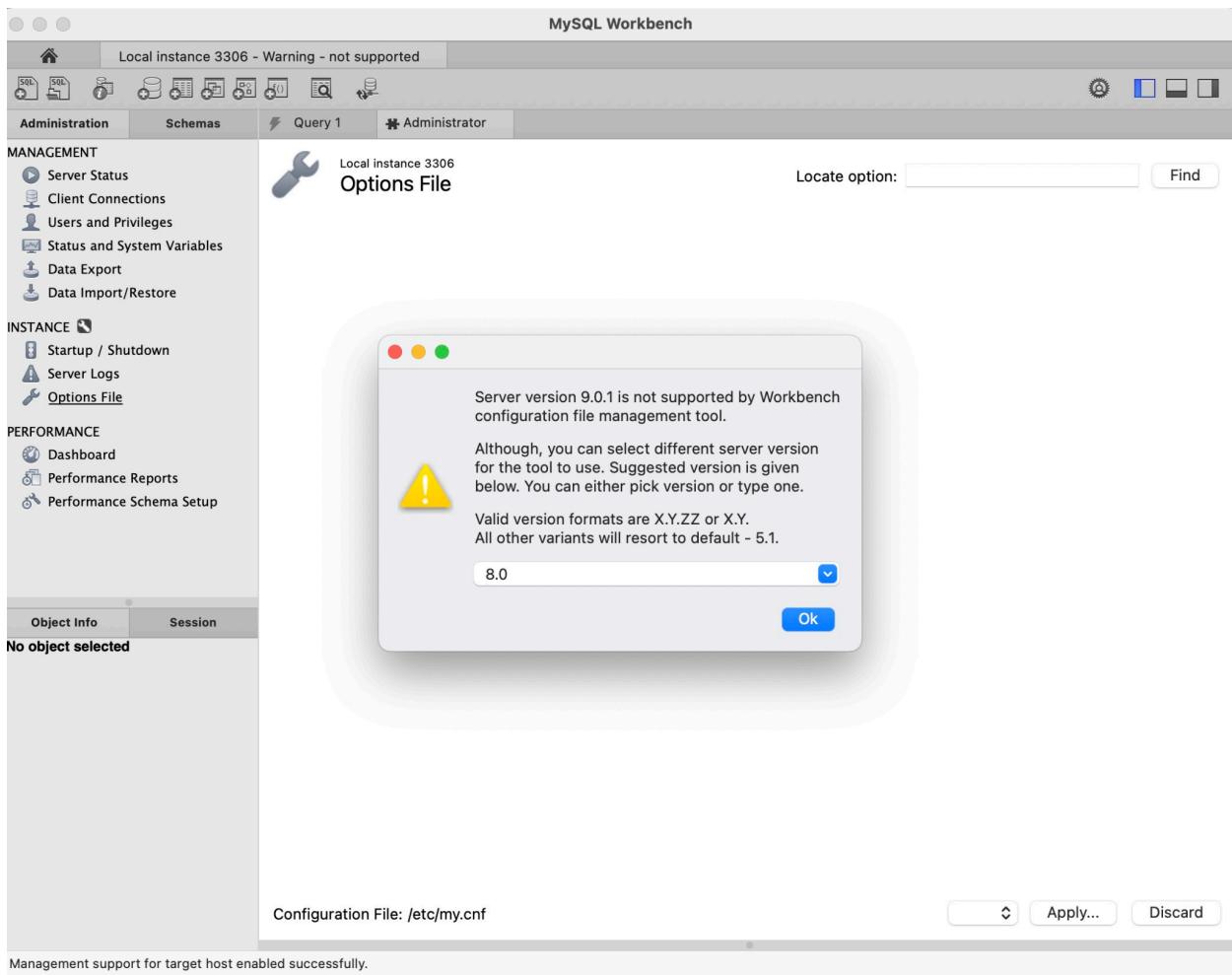
Time	Action	Response	Duration / Fetch Time
16:51:58	show variables like 'secure_file_priv'	1 row(s) returned	0.0037 sec / 0.00001...

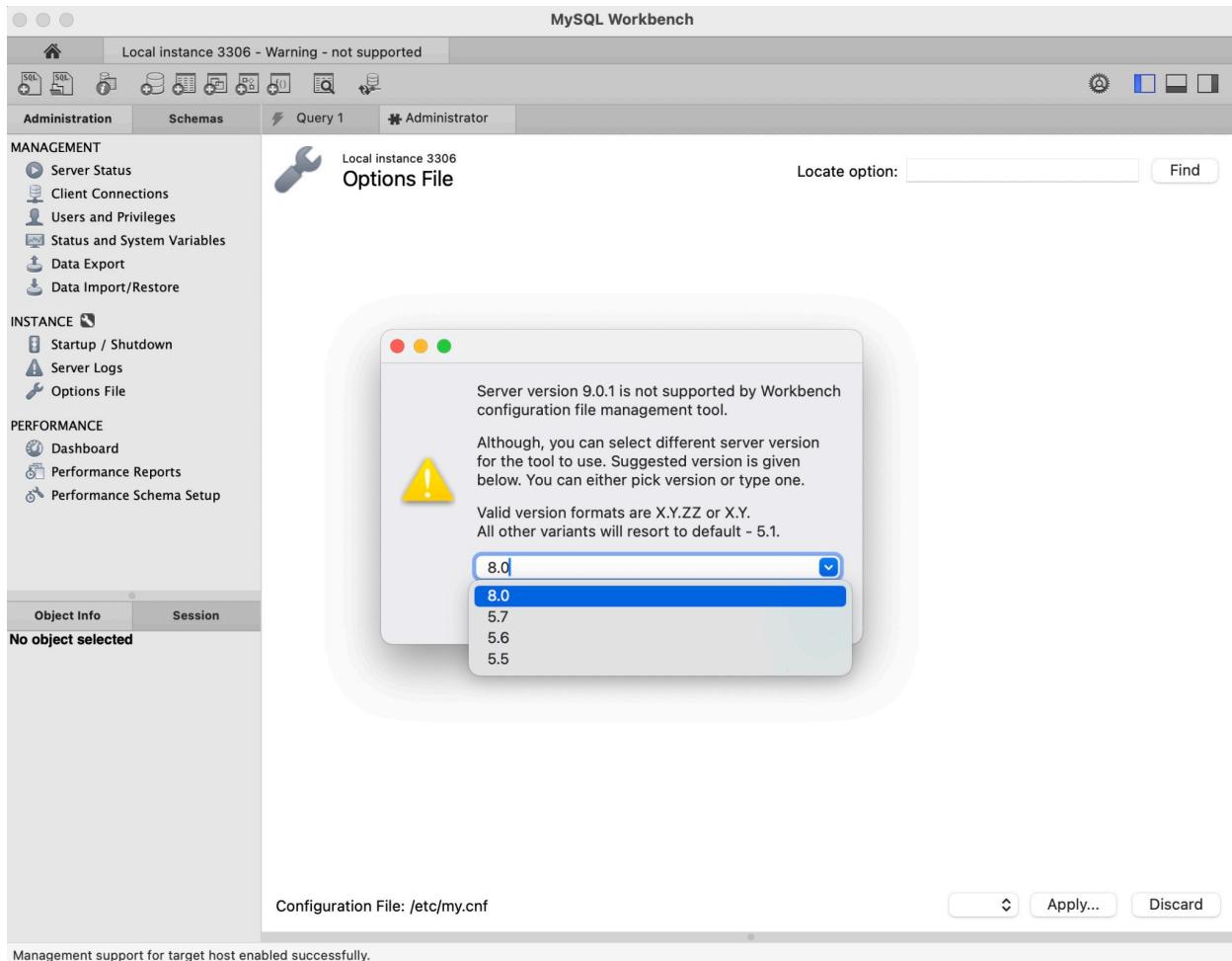
Segons [aquest article](#), MySQL Workbench pot buscar l'arxiu my.cnf a Mac, i si no el troba, ens el crea. Hem seguit les instruccions i no ens l'ha creat.

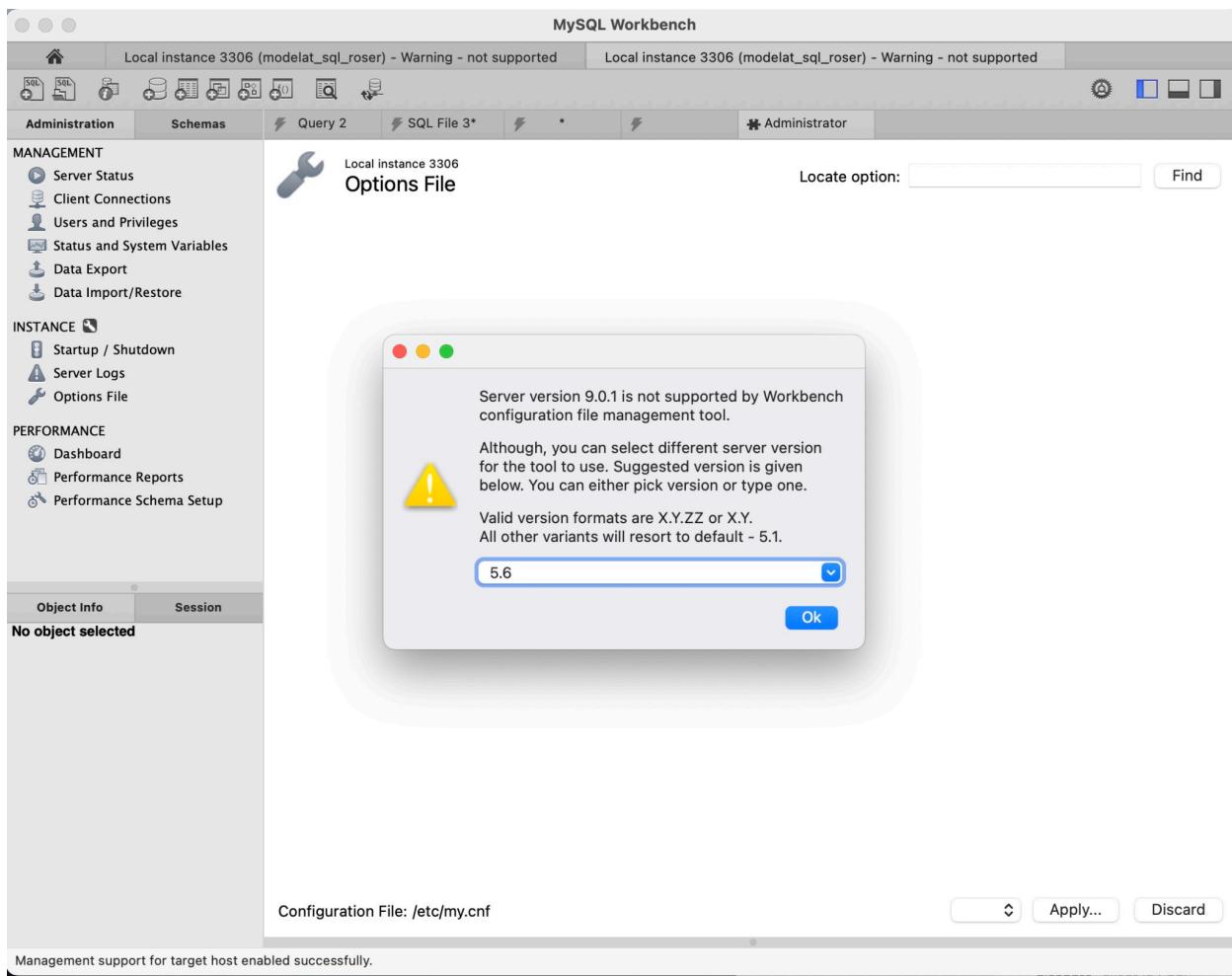


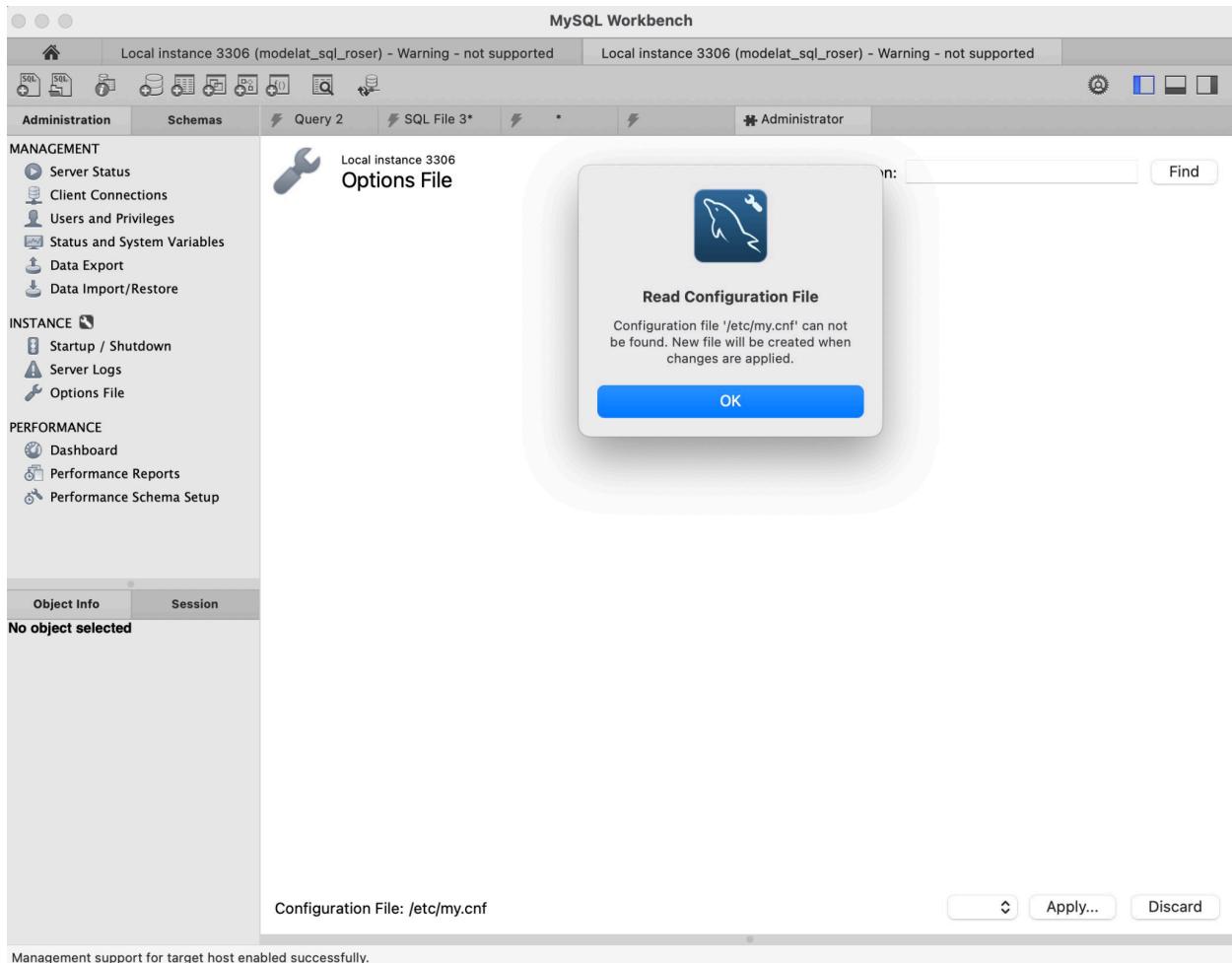
Hem seguit els passos [d'aquesta resposta](#) per a forçar la creació d'aquest fitxer. De pas ens ha baixat la versió de SQL.

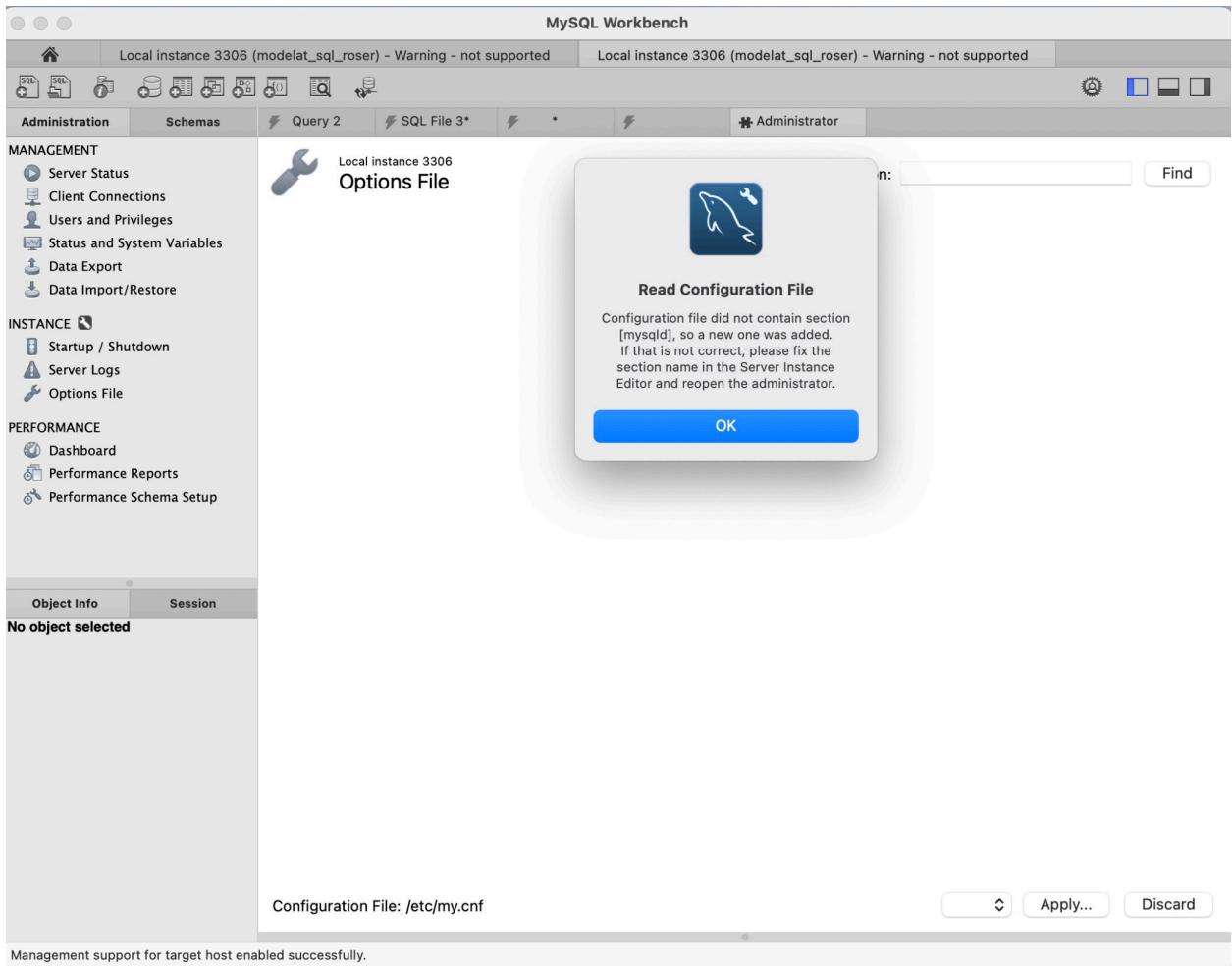












Ara copiem i puguem l'arxiu de config d'un company.
Tanquem workbench i tornem a obrir. Segueix donant error.

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

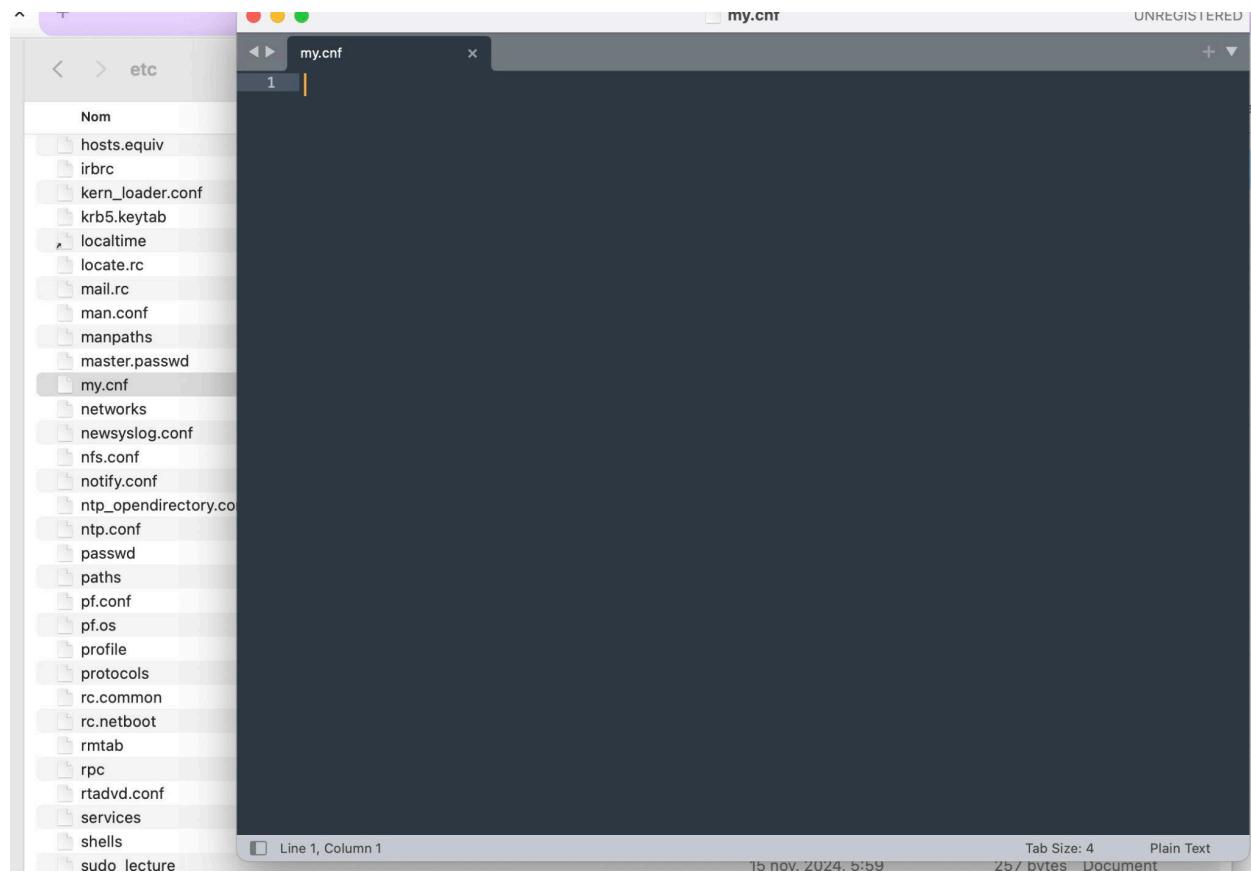
Management support for target host enabled successfully.

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

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:

id	
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

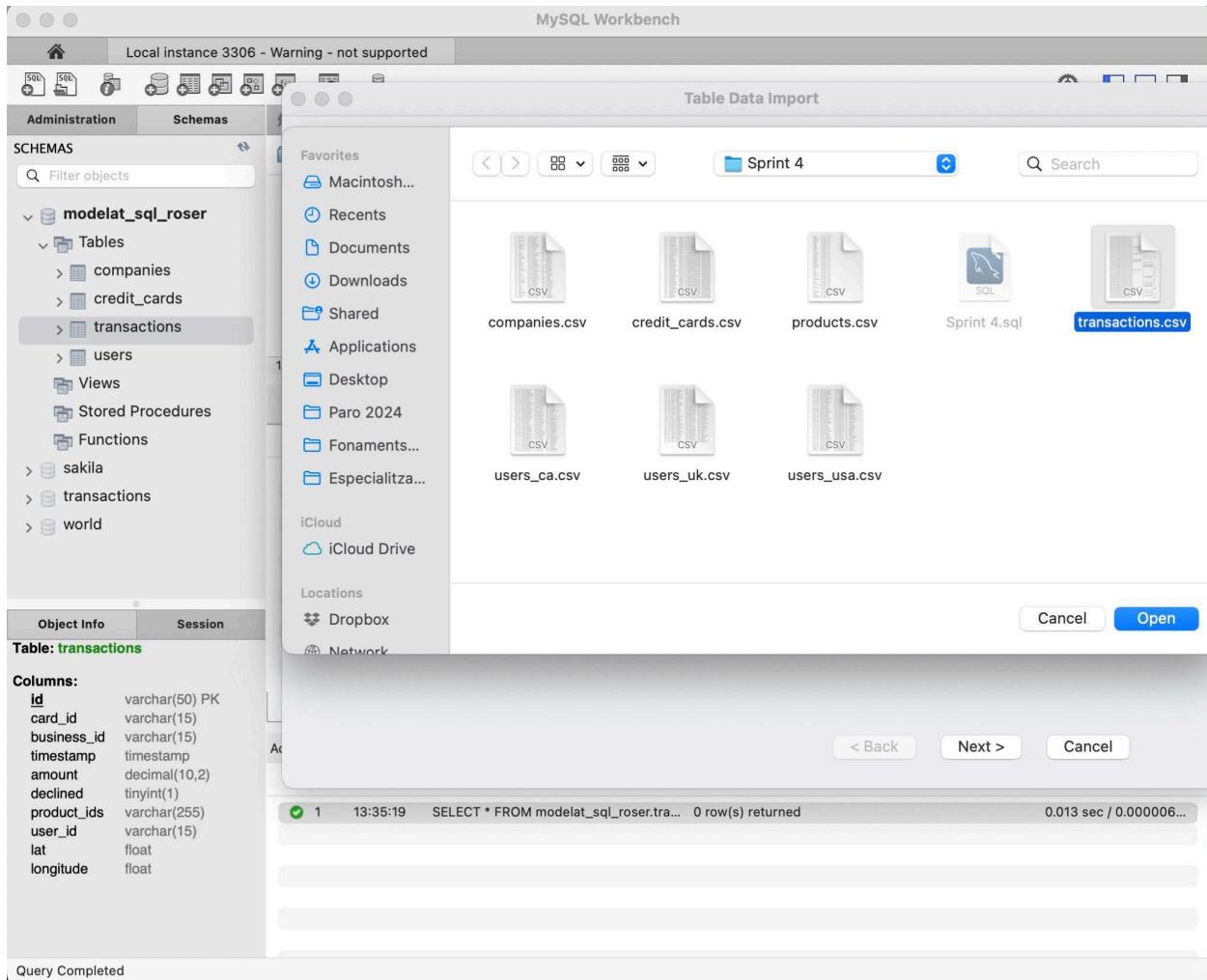
1 13:35:19 SELECT * FROM modelat_sql_roser.transactions 0 row(s) returned 0.013 sec / 0.000006...

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-E5394FFEA99	CcU-2959	b-2346	2021-10-26 23:00:01	279.93	0	43, 31	92	33.7381	158.298
077A6D04-31A3-7E87-65B9-00A902AD109F	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-9570-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-4C85-0EA416753A4F	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-04500CEP7200	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

Table Data Import

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

id	user_id	iban	pan	pin	cvv	track1	track2	expiring_date	created_at	updated_at	deleted_at
1479B3D2-B7BA-C7BB-4CE3-8D7C2DE85ABB	CcU-2994	b-2326	2021-08-09 00:58:07	309.45	0	89, 41, 59	133	66.2672	172.399		
14CAE5B5-8FB1-3E4A-4C85-0EA167534F4	CcU-4849	b-2302	2021-12-31 00:29:42	388.04	0	2, 13, 53, 31	189	-53.6202	93.0533		
1517E9A8-8B44-A7C9-6691-692C27D0DC2C	CcU-3505	b-2546	2021-03-23 01:58:34	259.51	1	83, 43	267	-70.0484	-44.5029		
152598C2-029D-D684-4B66-91EDF393EBFF	CcU-2994	b-2326	2021-07-05 03:10:00	395.43	0	23, 97	126	-67.0189	-141.672		
152598C2-029D-D684-4B66-91EDF393EBFF	CcU-2994	b-2326	2021-07-05 03:10:00	395.43	0	23, 97	126	-67.0189	-141.672		

Action Output

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

Query Completed

Local instance 3306 - Warning - not supported

Table Data Import

Configure Import Settings

Detected file format: csv

Encoding: utf-8

Source Column Dest Column

id	user_id	iban	pan	pin	cvv	track1	track2	expiring_date
CcU-2938	275	TR30195...	5424465...	3257	984	%B83837...	%B76538...	10/30/22
CcU-2945	274	DO26854...	5142423...	9080	887	%B46213...	%B41495...	08/24/23
CcU-2952	273	BG45IVQ...	4556 453...	4598	438	%B21832...	%B67785...	06/29/21

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 pane 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:

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

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:

id	name	surname	phone	email	birth_date	country	city	postal_code	address
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	0D2D6E08-5C9E-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-EBC31DEA8C4DE	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-E523-3C41-3EE30B2A104D	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	-80.9934	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
id	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

Screenshot of MySQL Workbench showing the Local instance 3306 - Warning - not supported. The interface includes Administration, Schemas, and Query 1 tabs. The Schemas tab shows the modelat_sql_roser schema with tables: companies, credit_cards, transactions, and users. The users table is selected, displaying its columns (id, name, surname, phone, email, birth_date, country, city, postal_code, address) and data. A result grid shows 15 rows of user data. The right sidebar contains Result Grid, Form Editor, Field Types, Query Stats, and Execution Plan.

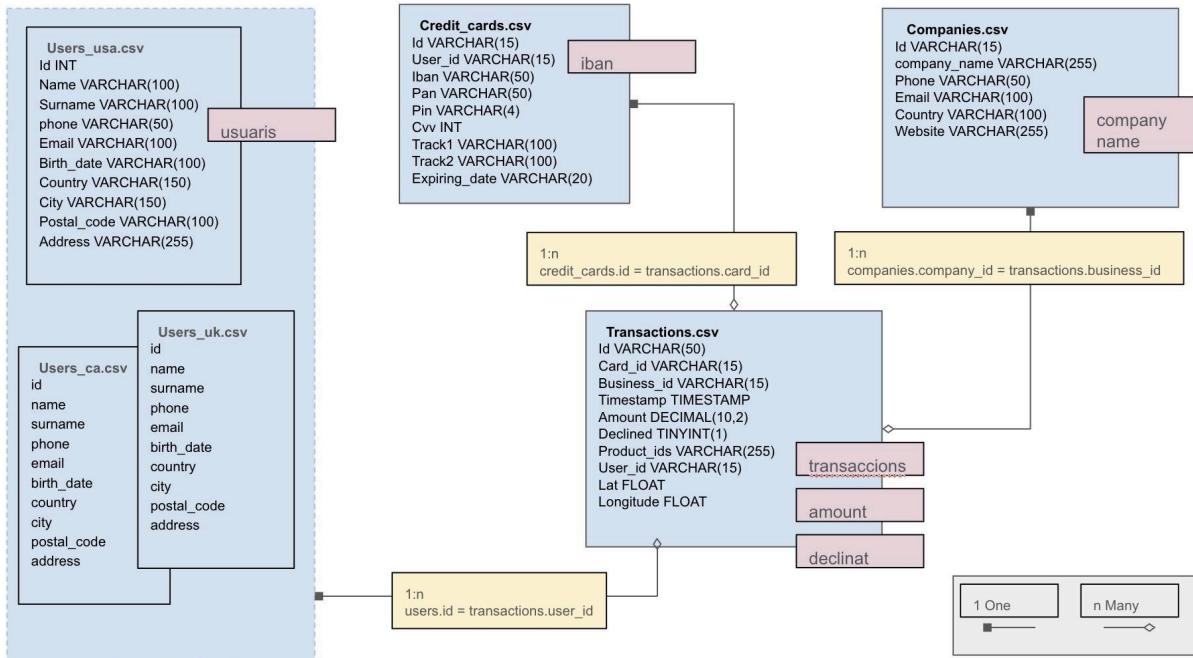
```

1 • SELECT *
2   FROM users;

```

	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	onrare.egestas@icloud.edu	Feb 18, 1989	United States	Kailua	77417	Ap #545-2244 Erat. Rd.	
5	Hayfa	Pierce	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	Nissina	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) 883-2184	aliquam.nisi@outlook.com	Jan 24, 1987	United States	Richmond	35987	647-3080 Lacus. 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) 429-8106	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 Portitor Avenue	
13	Allegria	Stanton	1-927-763-6488	proin.eget@protonmail.ca	May 19, 1990	United States	Kearney	14947	4467 Ante. Av.	
14	Sara	Flynn	1-311-646-0333	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) 732-6628	metus@aol.net	Mar 4, 1990	United States	Davenport	43415	Ap #836-9508 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 Luctus Avenue	
20	Kelsey	Bates	(653) 724-4754	ullamcorper.nisi@acm.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	Aquilla	Strickland	1-246-231-5495	enim.sit@icloud.com	Sep 28, 1982	United States	Colchester	26637	Ap #260-4612 Massa Road	

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:

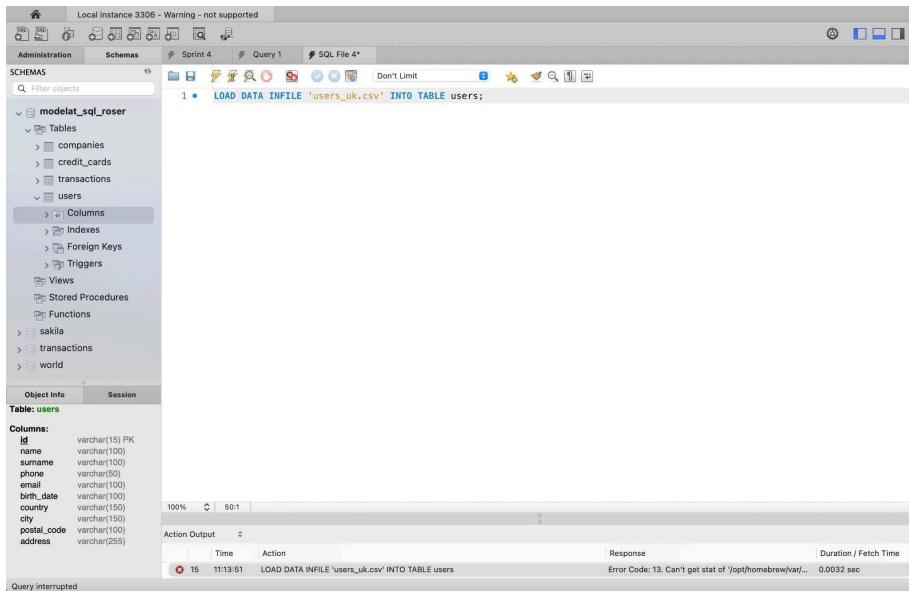
```
1 [mysqld]
2 secure_file_priv=""
3 local_infile=1
4
5 [client]
6 loose-local-infile=1
7
```

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	

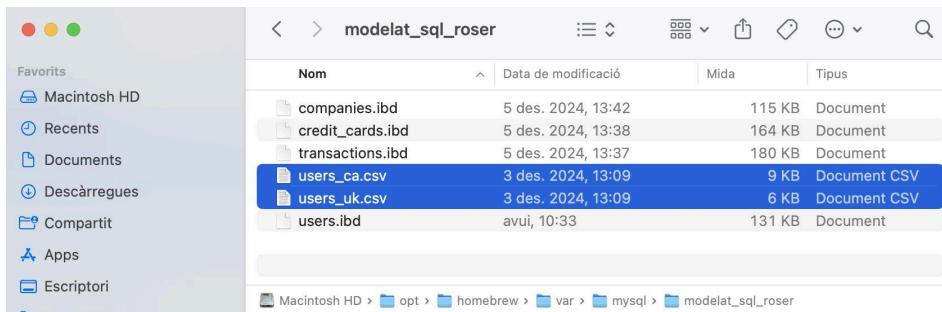
Details from the bottom window's status bar:
Action Output: 0
Time: 10:22:51
Action: SHOW VARIABLES LIKE 'secure_file_priv'
Response: 1 row(s) returned
Duration / Fetch Time: 0.0039 sec / 0.00001...

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

The screenshot shows the MySQL Workbench interface. On the left, the 'Tables' section lists 'companies', 'credit_cards', 'transactions', and 'users'. Under 'users', the 'Columns' section shows fields: id, name, surname, phone, email, birth_date, country, city, postal_code, and address. The 'Object Info' tab is selected, displaying the table definition:

```
Table: users
Columns:
id          int PK
name        varchar(100)
surname     varchar(100)
phone       varchar(100)
email       varchar(100)
birth_date  varchar(100)
country     varchar(150)
city        varchar(150)
postal_code varchar(100)
address     varchar(255)
```

The 'Session' tab shows a failed query:

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

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

```
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:

id	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:

id	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

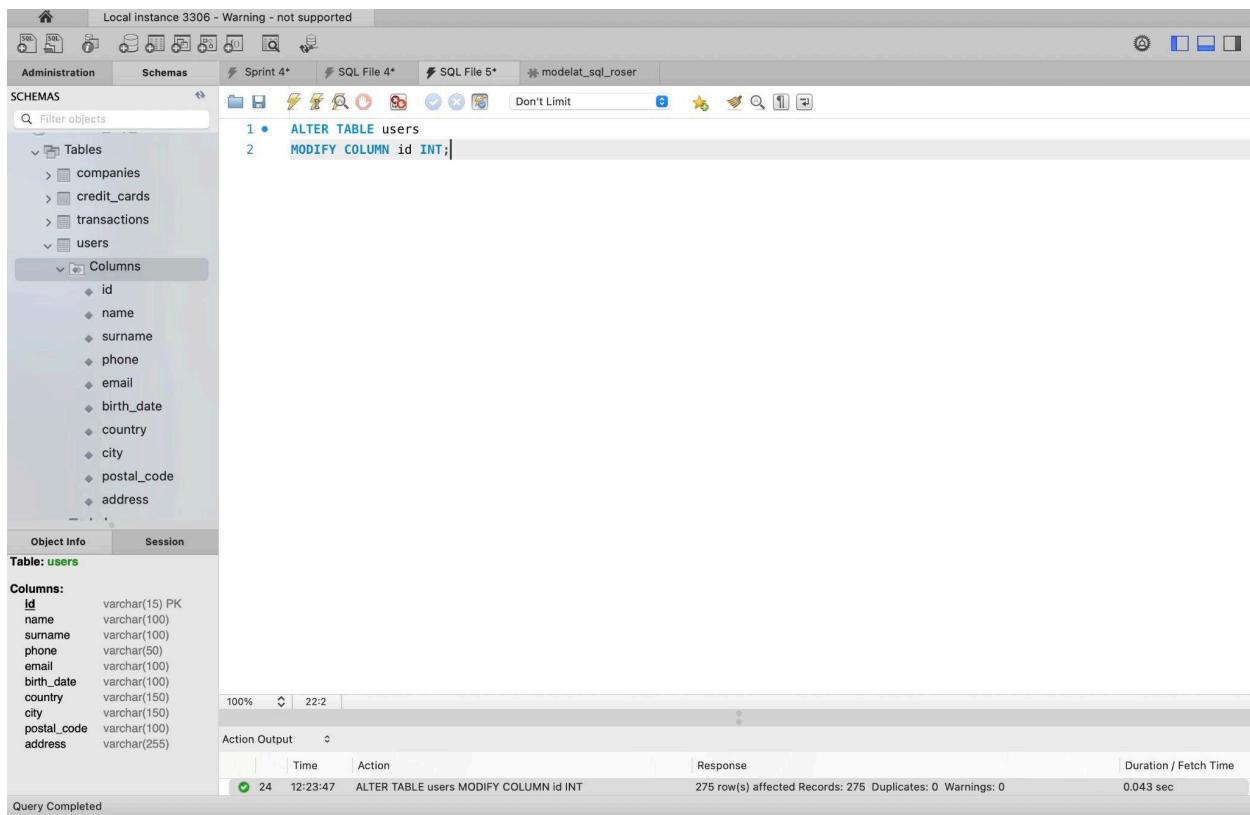
Query Completed

```

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' with 'Tables' expanded, showing 'companies', 'credit_cards', 'transactions', and 'users'. Under 'Columns' for the 'users' table, the 'id' column is selected. 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 the table definition:

Table: users

Columns:

Column	Type
id	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 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, it 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 sidebar lists schemas: Administration, Schemas, Sprint 4*, SQL File 4*, SQL File 5*, and modelat_sql_roser. The main area shows the 'users' table with 27 rows. The right sidebar has tabs for Result Grid, Form Editor, Field Types, Query Stats, and Execution Plan.

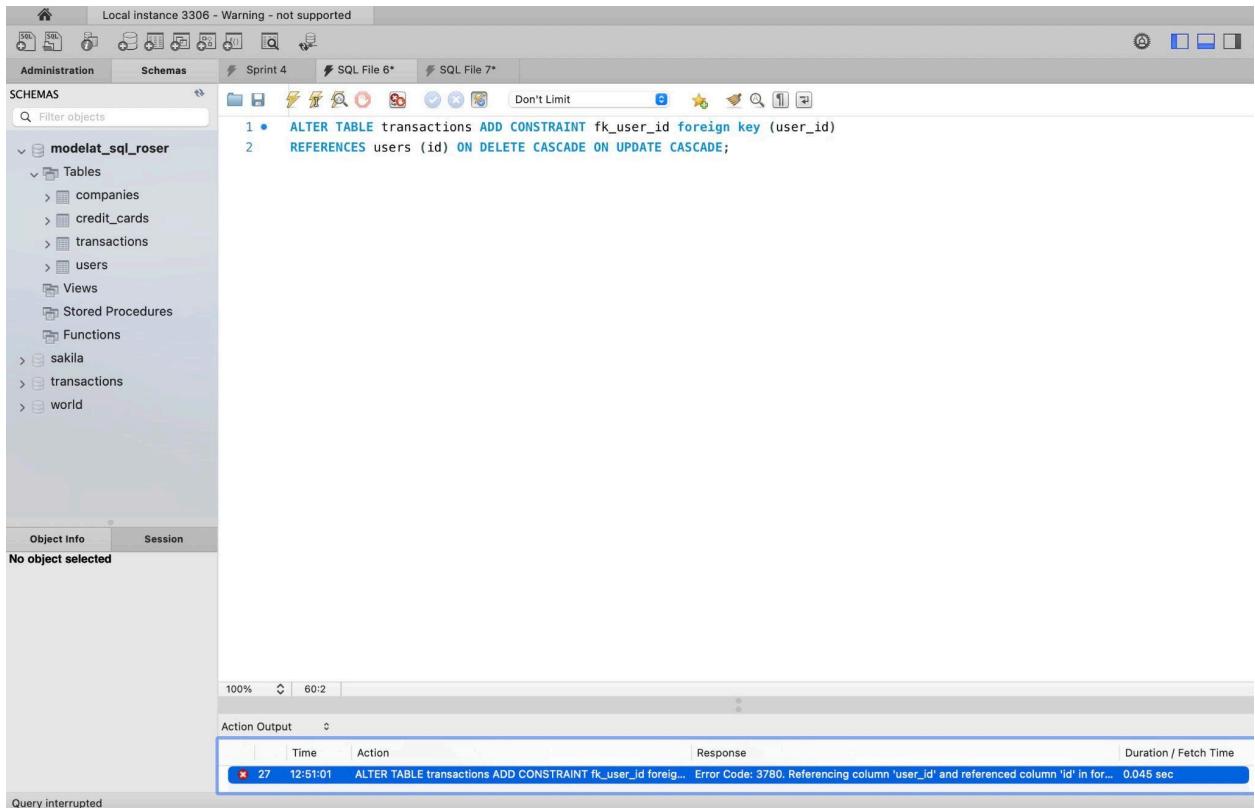
	id	name	surname	phone	email	birth_date	country	city	postal_code	address
1	Zeus	Gamble	1-282-581-0551	interdum.enim@protonmail.edu	Nov 17, 1985	United States	Lowell	73544	348-7818 Sagittis St.	
2	Garrett	Mcconnell	(718) 257-2412	integer.vitae.nibh@protonmail.org	Aug 23, 1992	United States	Des Moines	59464	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	uliamcorper.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
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	

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
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	

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 SQL code. 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 but focuses on the 'companies' table. The left pane shows the 'Companies' table under 'modelat_sql_roser'. The 'Columns' section for the 'companies' table is expanded, showing columns: id (varchar(15) PK), company_name (varchar(255)), phone (varchar(100)), email (varchar(100)), country (varchar(100)), and website (varchar(255)). The 'Actions' bar and the status bar at the bottom both show '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:

id	varchar(15) PK
company_name	varchar(255)
phone	varchar(50)
email	varchar(100)
country	varchar(100)
website	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 0.00076 sec / 0.000...

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:

id	varchar(15) PK
company_name	varchar(255)
phone	varchar(50)
email	varchar(100)
country	varchar(100)
website	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 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:

id	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

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:

id	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

```

users 1

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	064-204-8788	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

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.

```
SELECT avg(amount)
FROM transaction
WHERE company name is Donec Ltd - subquery
JOIN credit cards
GROUP BY iban
```

! taules amount/iban/companyname

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

El sumatori de les últimes 3 transaccions per targeta (3 max - limit 3 time) ha de ser 3 = inactiva

Altres = activa

Exercici 1: targetes actives

Quantes 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:

Exercici 1: vendes per producte

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

COUNT transaction id

GROUP BY product id

WHHERE declined = 0