

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

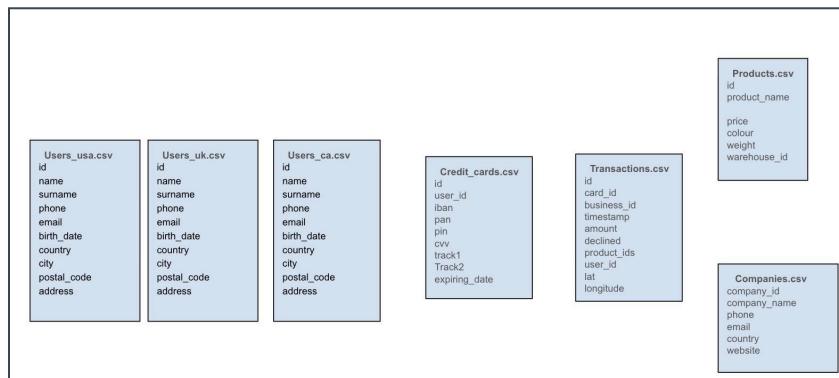
Nivell 3

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.

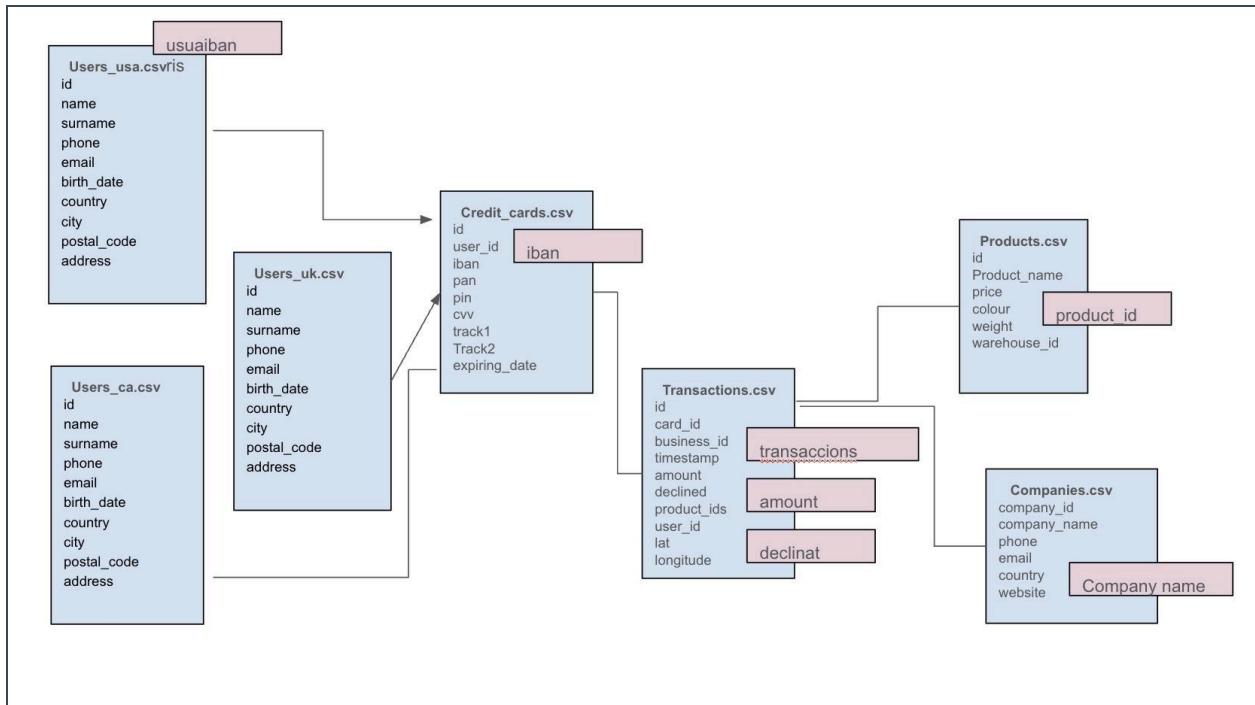
Left Window:

	A	B	C	D	E
1	id	name	surname	phone	email
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.sed@aol.org
5	154	Cooper	Bullock	(021) 3231 6627	et@outlook.ca
6	155	Joshua	Russell	055 4409 5286	iste.nec.ante@outfi
7	156	Ramiro	Case	055 3114 1566	molli.phasellus.libero
8	157	Philip	Carry	0800 640 6251	pharetra.iaculis@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	Hoyle	0845 46 47	convalis.est.vitae@y
16	165	Nora	Carrell	070 6611 3432	varius.et.eusmod@poo
17	166	Matthew	Woodard	0500 767716	urna@outlook.net
18	167	Sheila	Dickerson	(01645) 68676	el@iaculis@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@outlook.ca
22	171	Gary	Robbins	0500 856738	dolor.dolor@poo
23	172	Yoko	Calhoun	055 0680 3561	dui.nec@outlook.org
24	173	Bertha	Stone	070 7845 5485	el.erat@aol.co.uk
25	174	Amelia	Kennedy	(0121) 837 5665	telus@aol.com
26	175	Brent	Batten	0500 221383	ipsum.prin@in@aol.co
27	176	Lucas	Stevenson	0800 1111	quis.peda.praesent@q
28	177	Liandra	Carpenter	07624 223719	urna@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.rutrum@poo
32	181	Kermit	O'Brien	078 8212 1580	cursum@poo
33	182	Dawn	Sheppard	0975 985 5842	vehicula@hotmail.net
34	183	Germaine	Whitehead	(016977) 5282	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@adipiscing@y
45	194	Porter	Francis	0500 257479	quis.accursem@ad.o
46	195	Rosalyn	Blake	(015905) 28451	integer@protonmail.ca
47	196	Blair	Duke	0800 060 8337	quis@hotmail.ca
48	197	Carly	Mathews	(024) 5216 7655	maurus@protonmail.ca
49	198	Keely	Fox	0800 1111	id.emilia@google.co
50	199	Lewis	Melendez	(016977) 5758	non@yahoo.ca
51	200	Nero	Mills	056 4507 5712	adipiscing@protonm

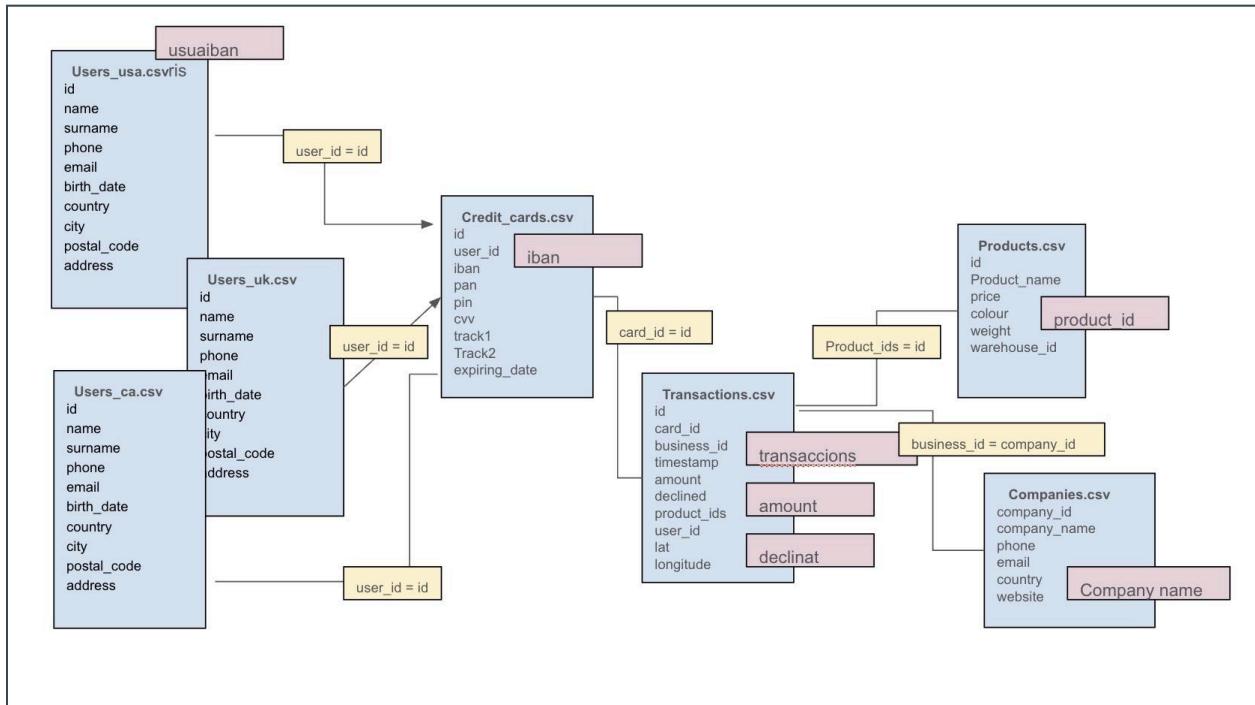
Right Window:

	A	B	C	D
1	id	name	surname	phone
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

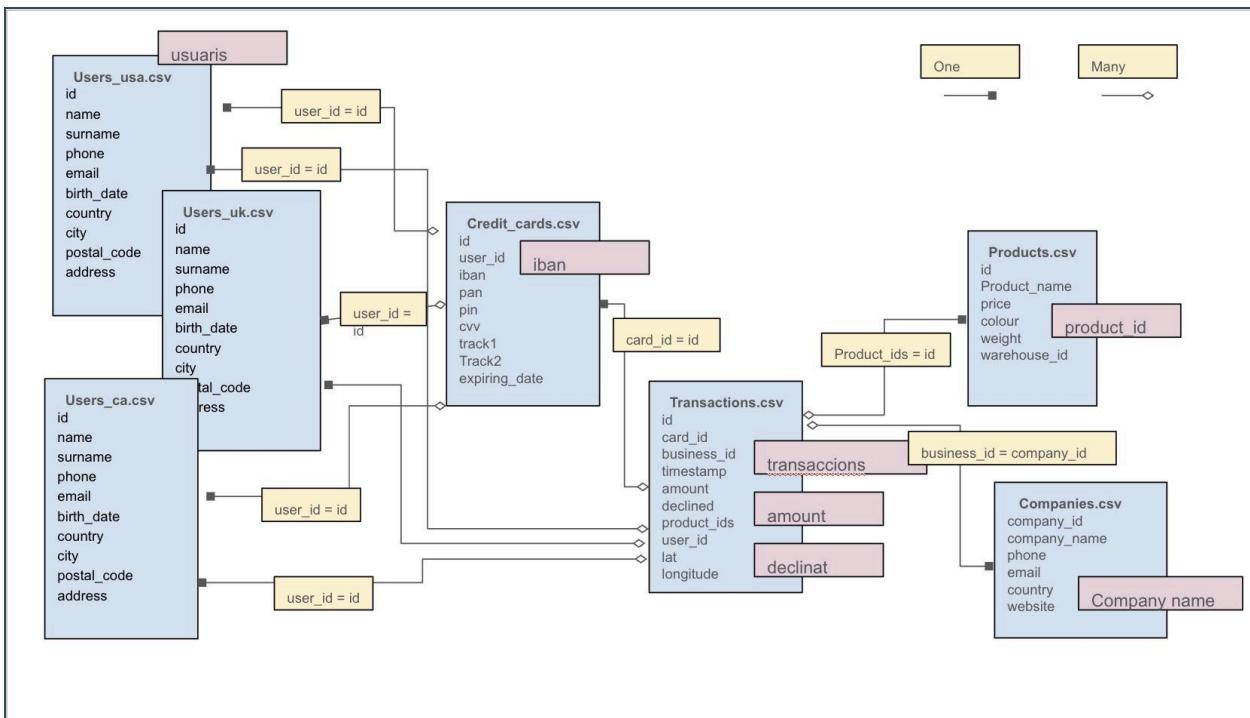


Li afegeixo en groc el qu sospito que relaciona les taules

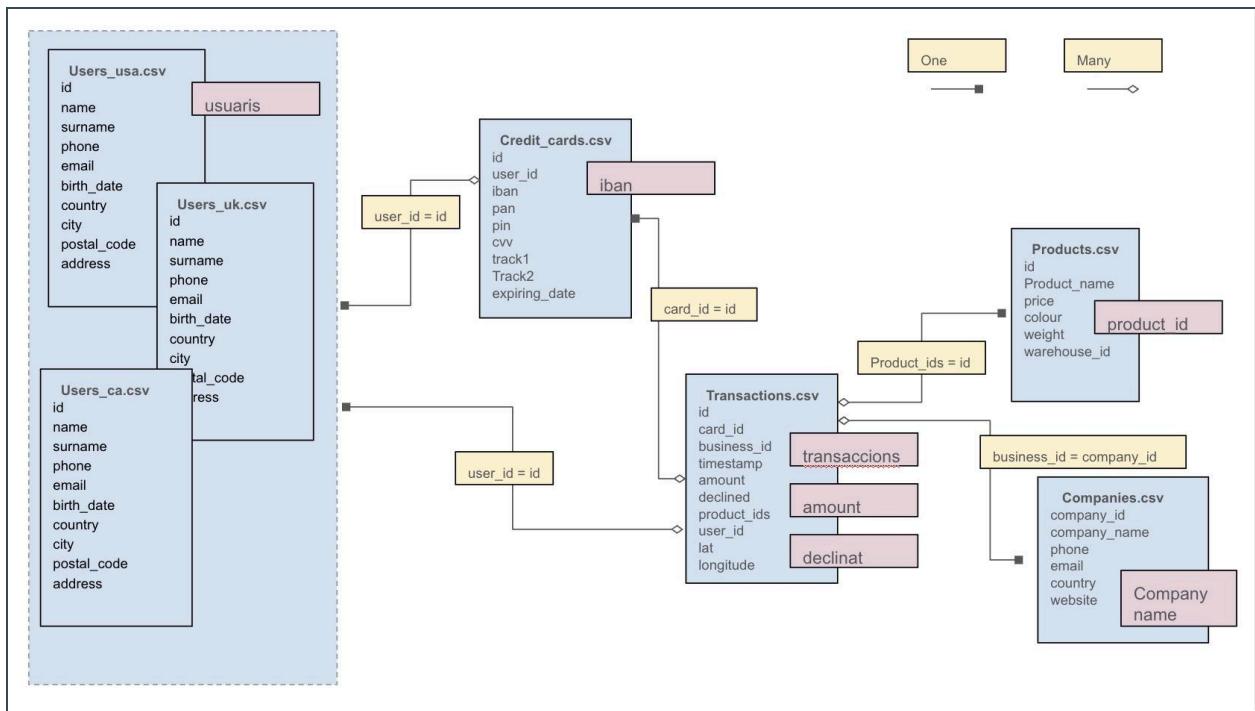


Potser val la pena juntar totes les taules de users i poder simplificar aquesta relació amb credit card per a que sigui de 1 a molts

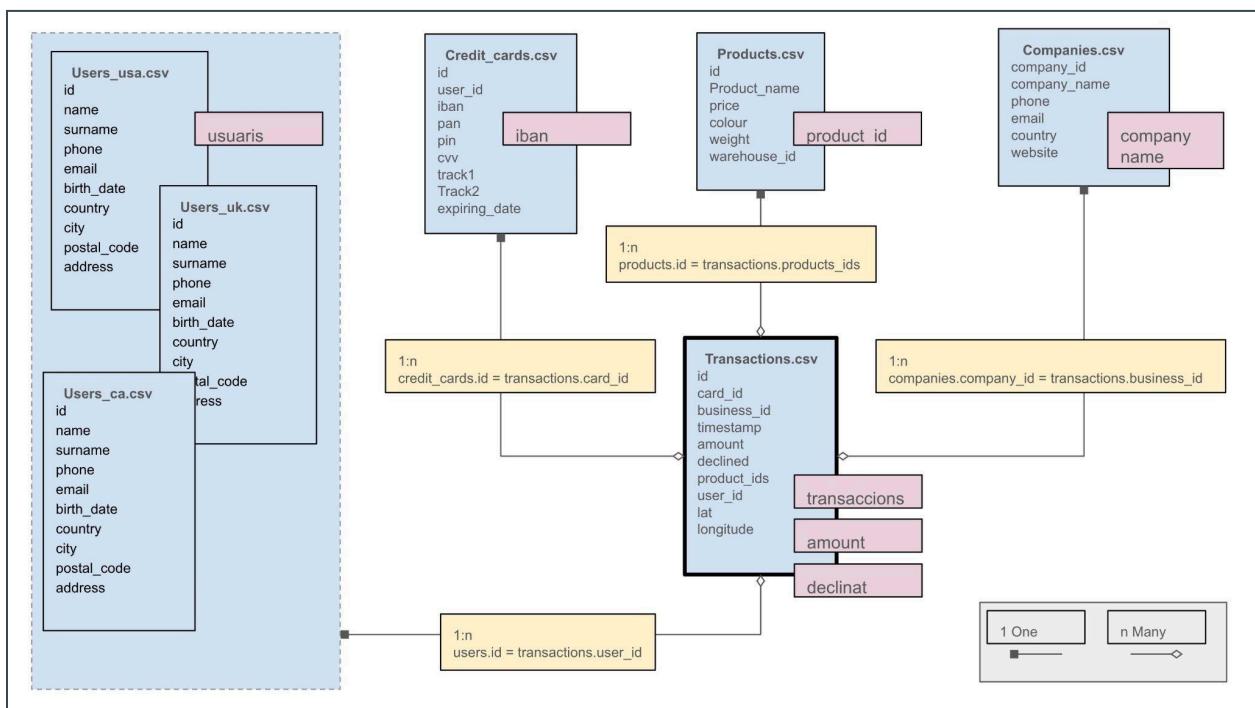
Intentem ser més clars amb les relacions al diagrama. A més, ens hem adonat que el user_id també apareix a transaccions, així que les relacions són encara més complicades



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



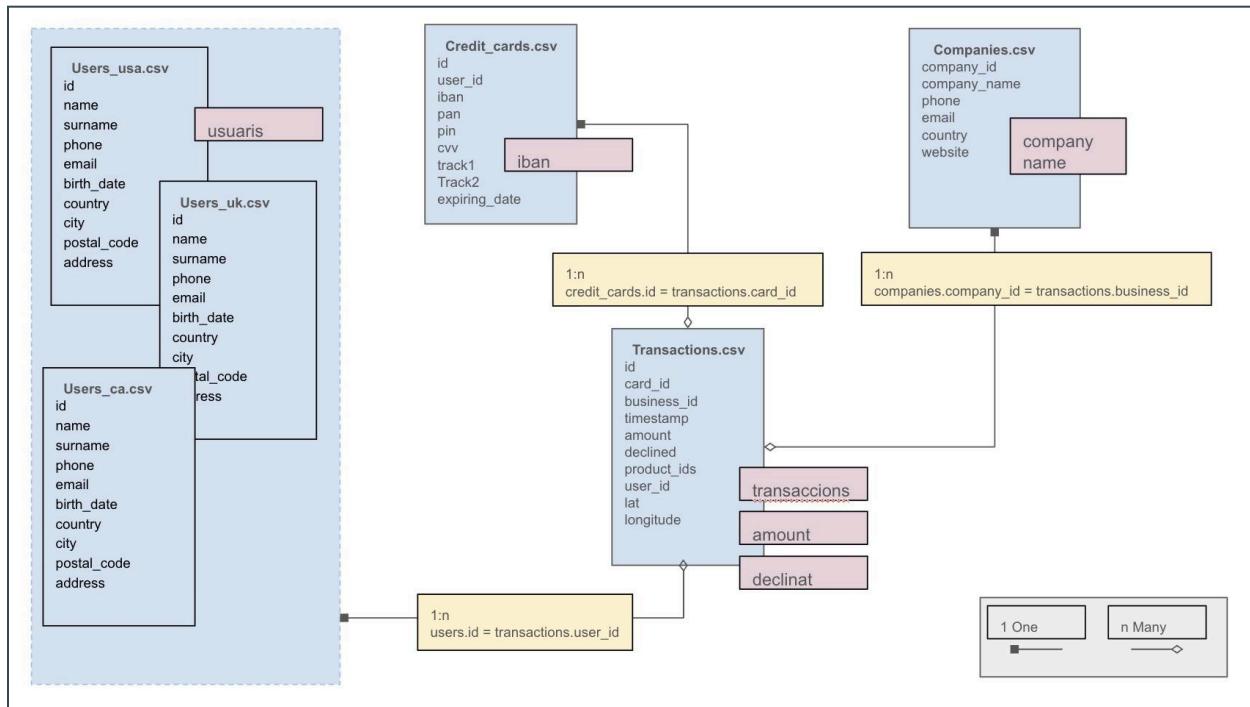
Però aquestes relacions triangulades no són recomanables i a més ens demanen una esquema d'estrella, així que treurem una de les relacions. Potser no ens interessa de qui usuari és realment la targeta, sinó qui usuari la fa servir.



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 new database:

- Administration Tab:** Shows the current instance is "Local instance 3306 - Warning - not supported".
- Schemas Tab:** Shows existing schemas: `modelat_sql_roser`, `sakila`, `transactions`, and `world`.
- Query Editor:** The query being run is:

```
-- Cream una base de dades
CREATE DATABASE IF NOT EXISTS modelat_sql_roser;
```
- Action Output:** 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 includes code to create `users`, `credit_cards`, `transactions`, and `companies` tables.

```

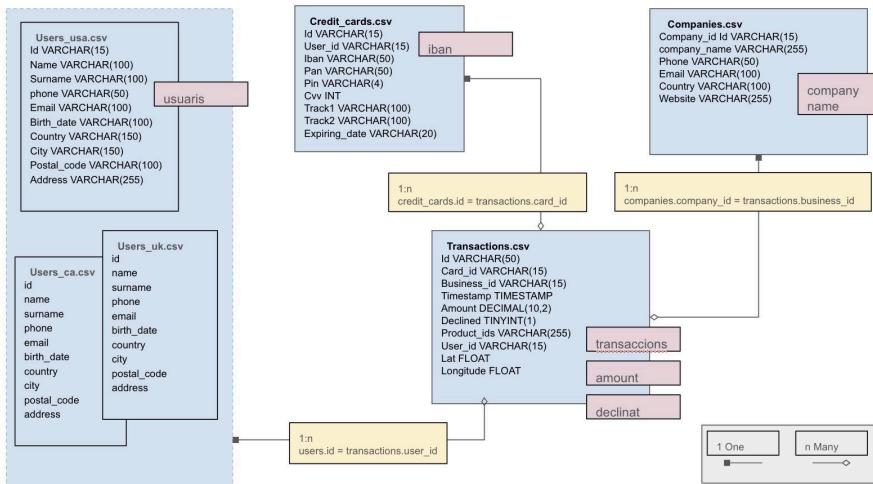
USE modelat_sql_roser;
-- Creem la taula users
CREATE TABLE IF NOT EXISTS users (
    id VARCHAR(15) PRIMARY KEY
);
-- Creem la taula credit cards
CREATE TABLE IF NOT EXISTS credit_cards (
    id VARCHAR(15) PRIMARY KEY
);
-- Creem la taula transactions
CREATE TABLE IF NOT EXISTS transactions (
    id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

```

The session log shows the execution of these statements:

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

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 '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

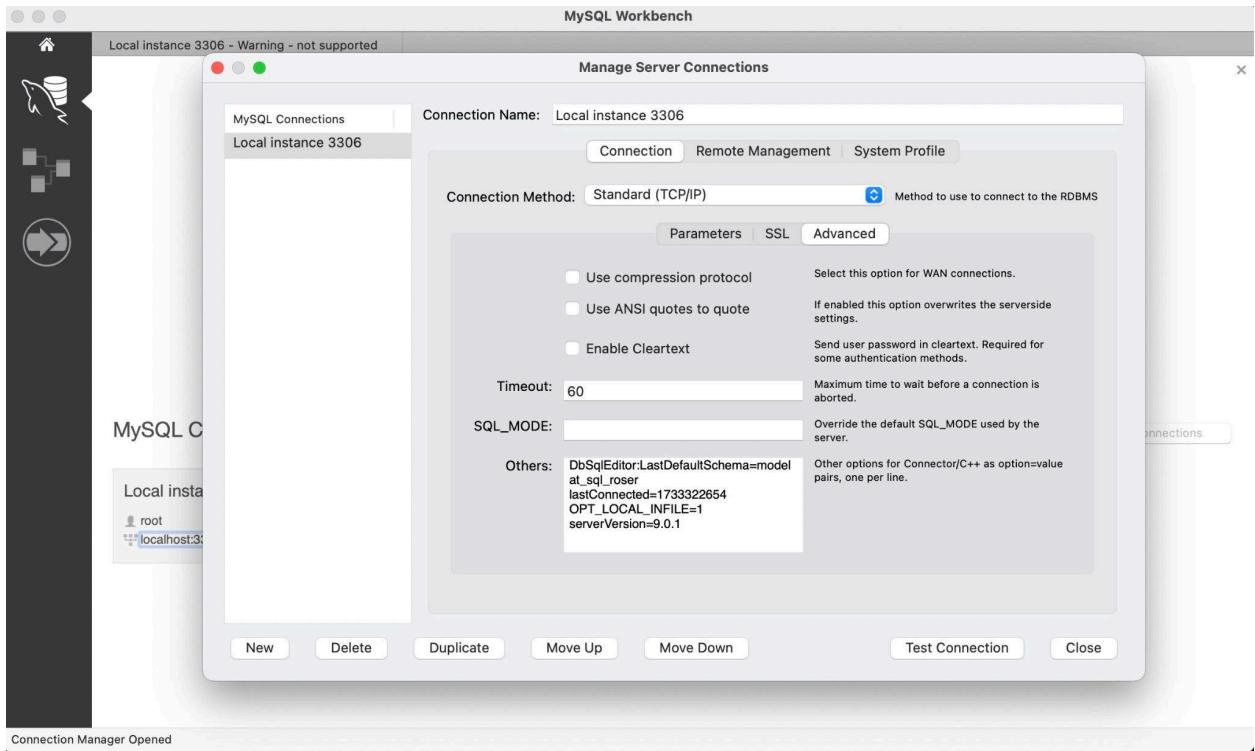
Below the grid, the status bar indicates "Result 1". At the bottom, the action output shows the query was run at 16:21:24 and returned 1 row(s) in 0.035 sec / 0.00022... ms.

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](#))

....



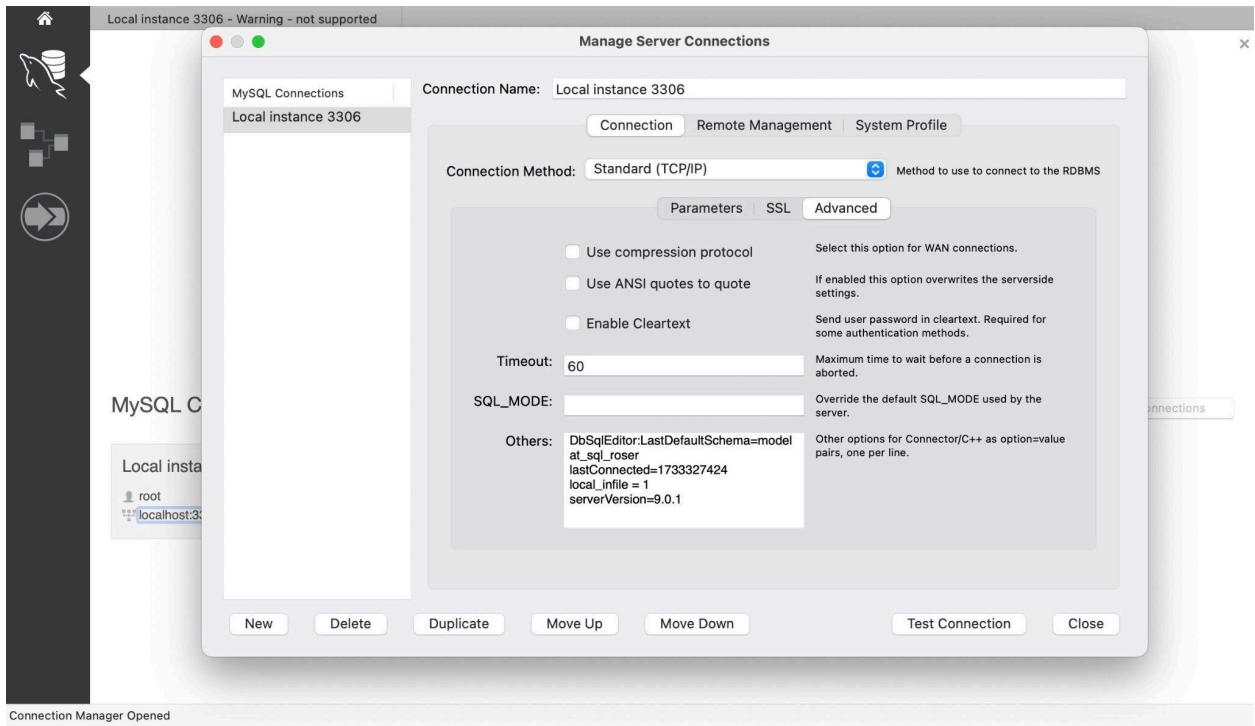
I tornem a provar

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:

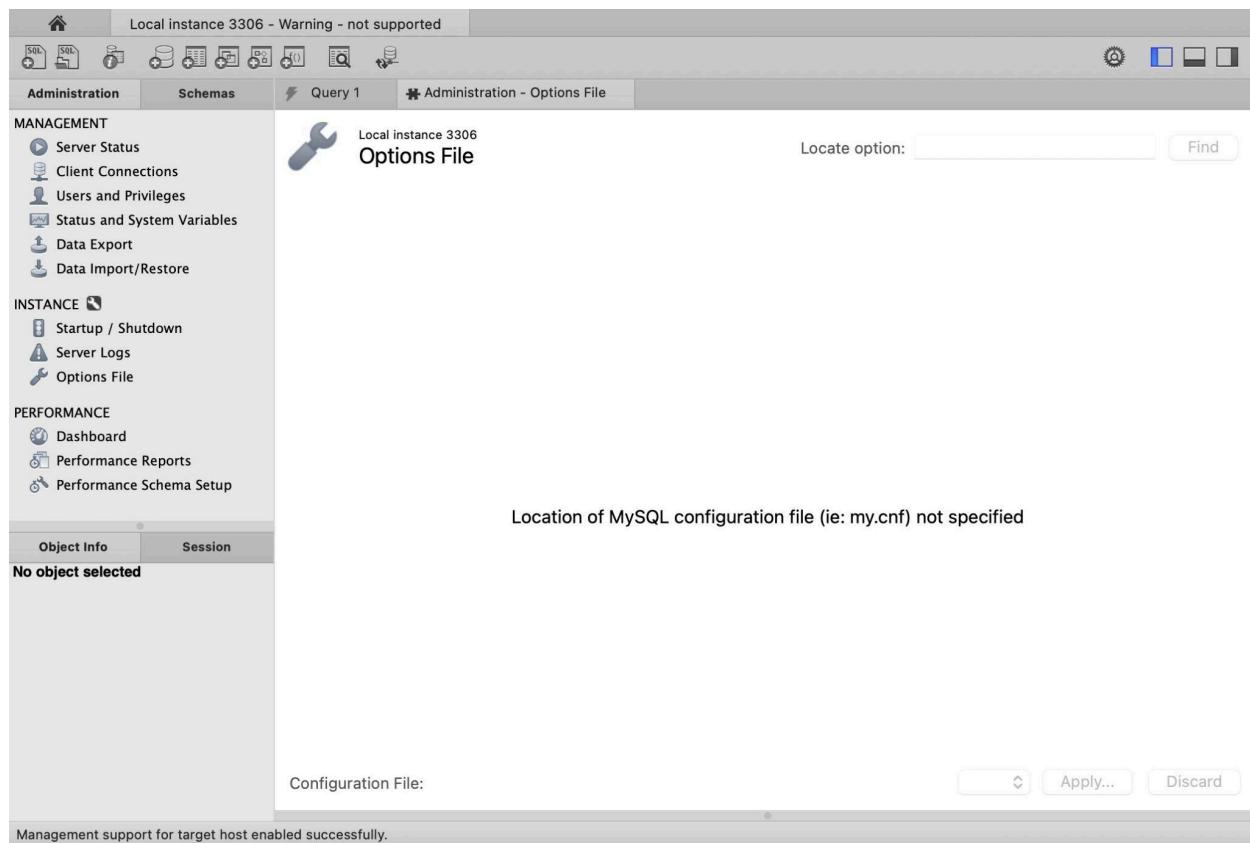
Variable_name	Value
secure_file_priv	NULL

Action Output

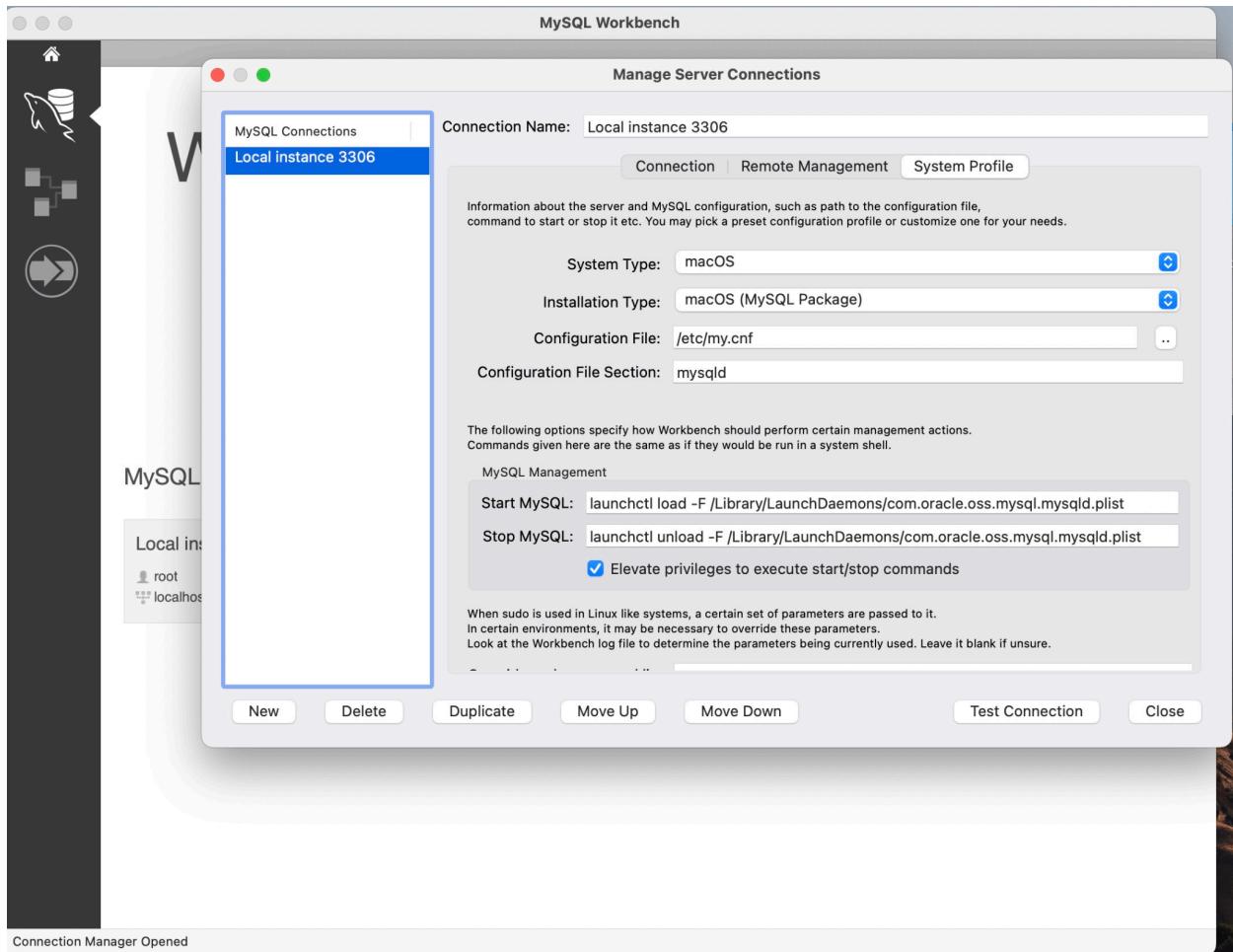
Time	Action	Response	Duration / Fetch Time
16:51:58	show variables like 'secure_file_priv'	1 row(s) returned	0.0037 sec / 0.00001...

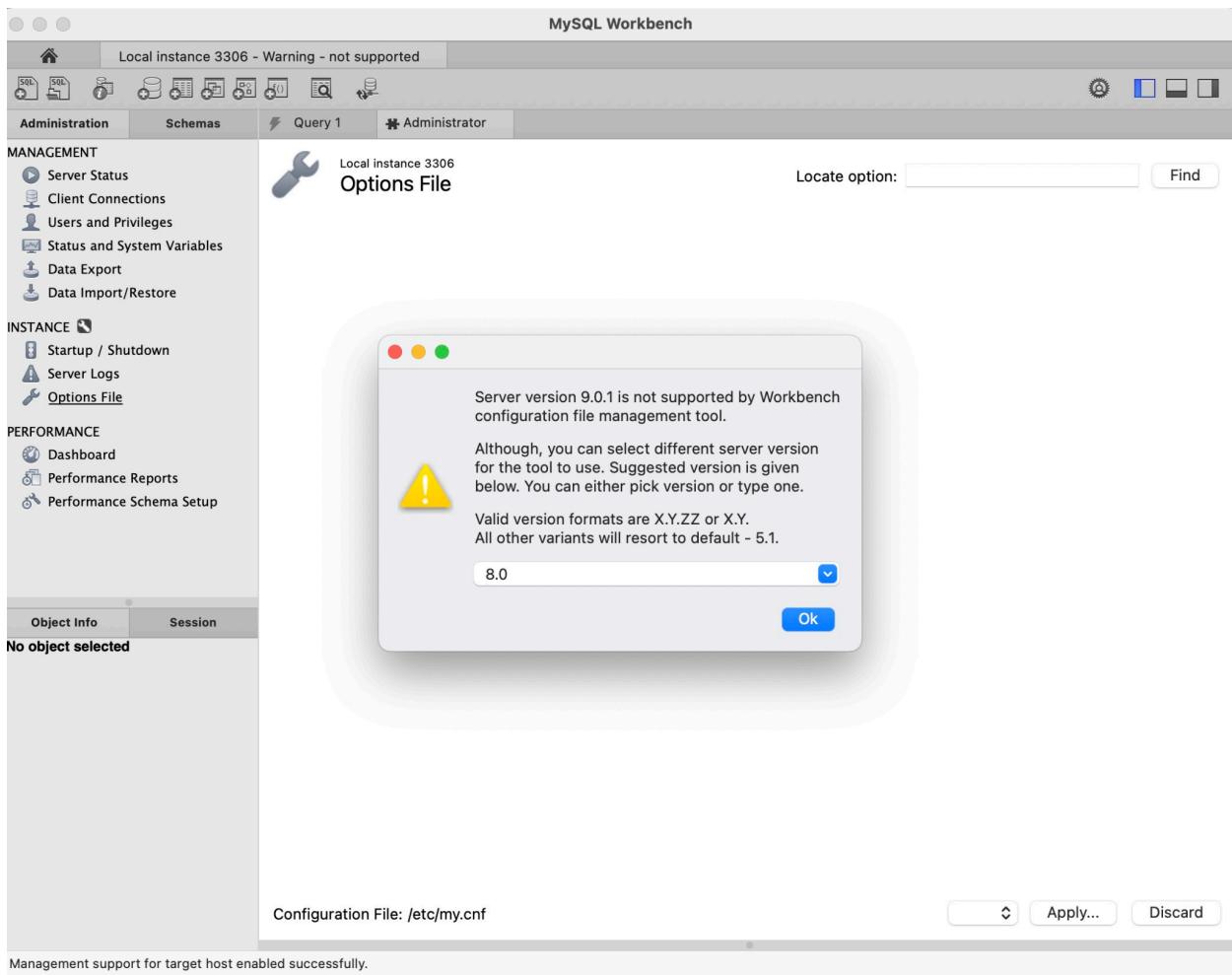
Query Completed

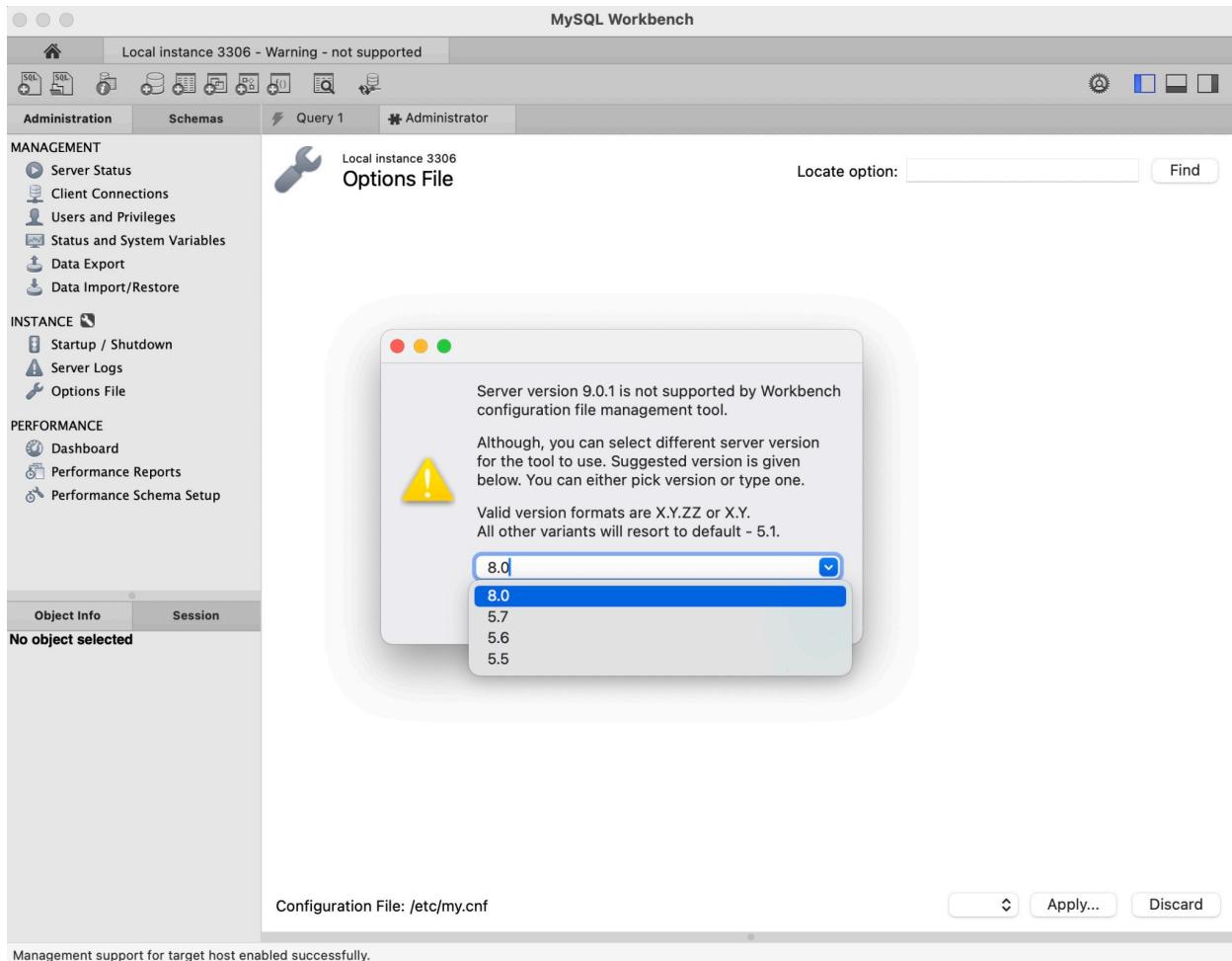
Segons [aquest article](#), MySQL Workbench pot buscar l'arxiu my.cnf a Mac, i si no el troba, ens el crea. Hem seguit les instruccions i no ens l'ha creat.

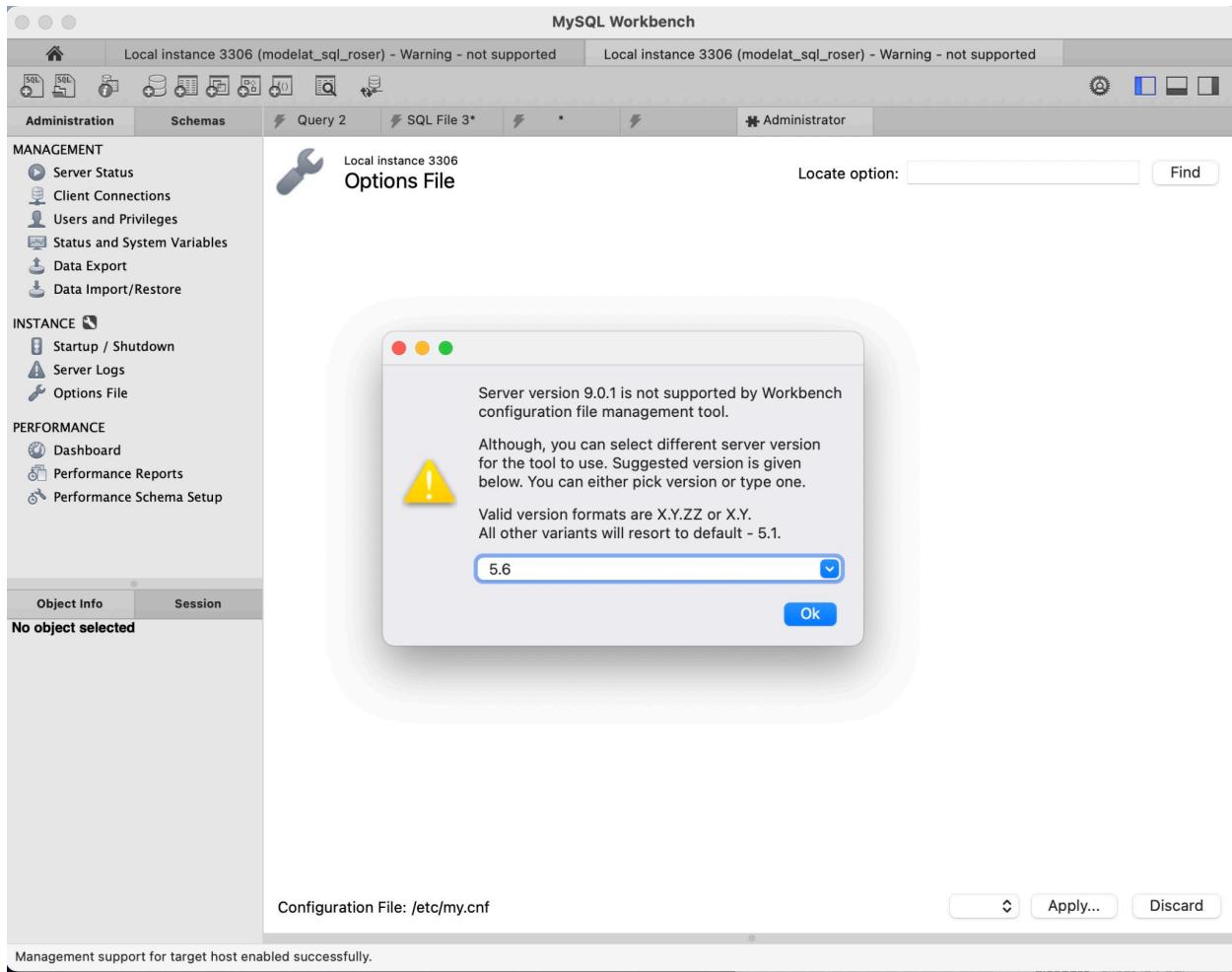


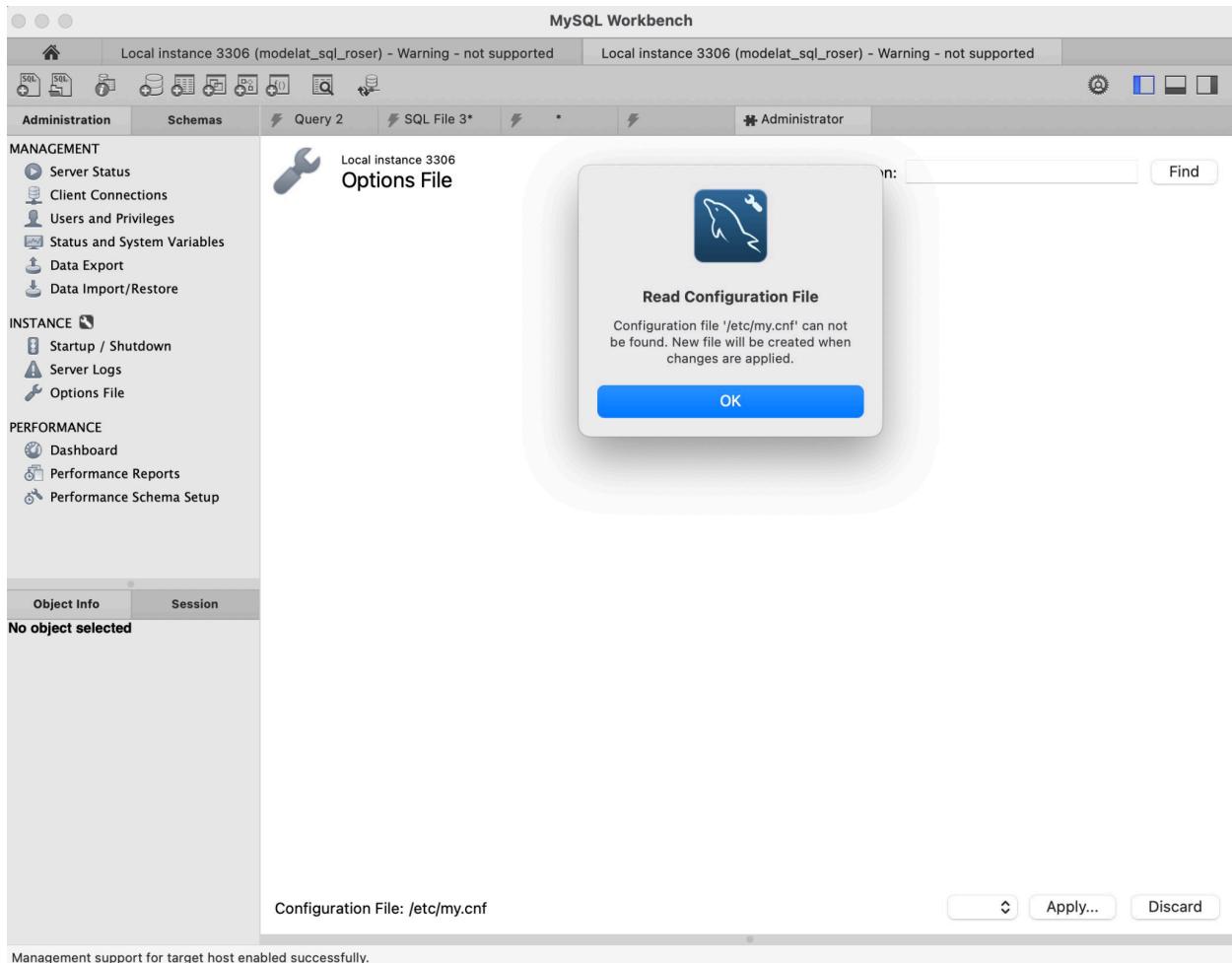
Hem seguit els passos [d'aquesta resposta](#) per a forçar la creació d'aquest fitxer. De pas ens ha baixat la versió de SQL.

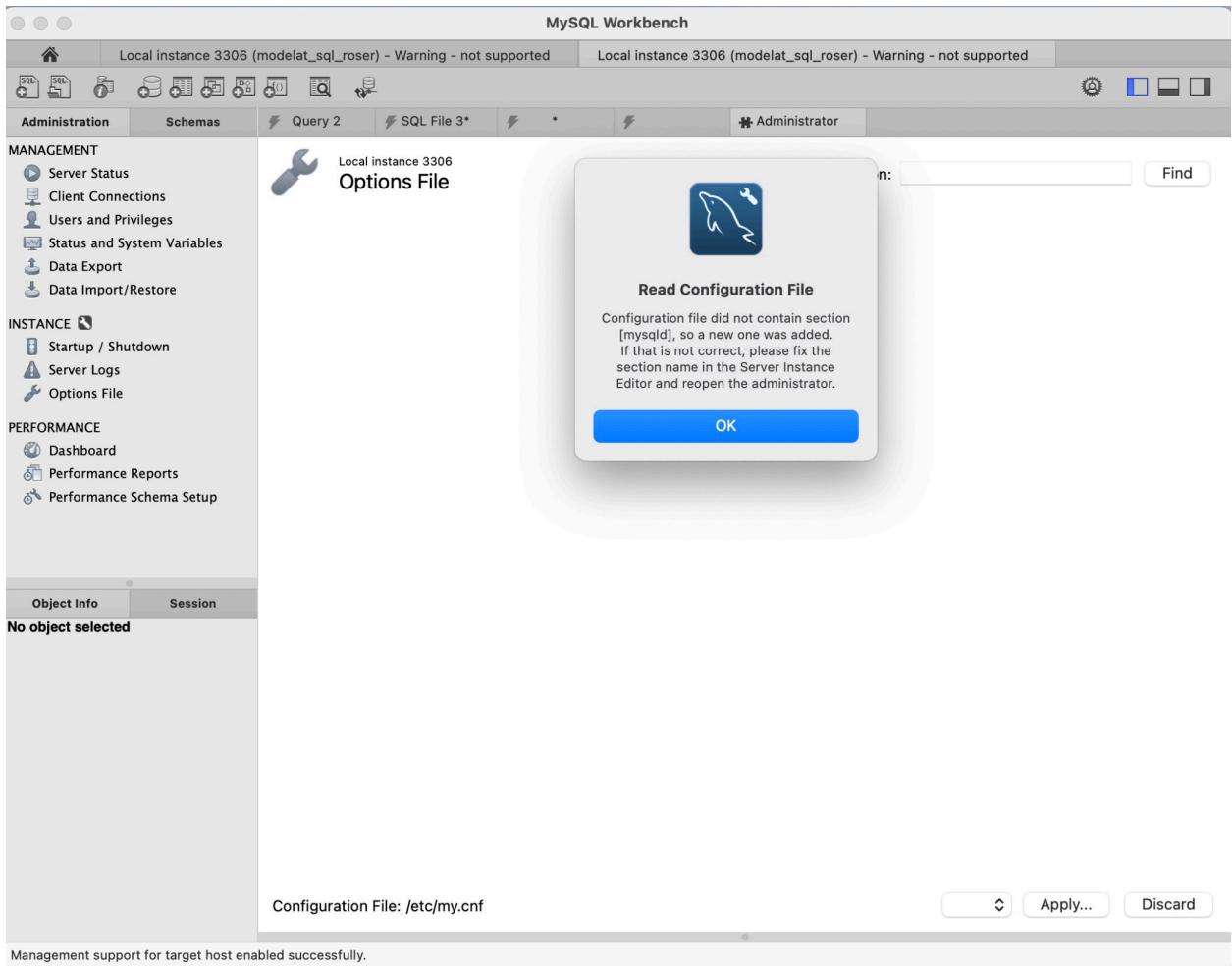












Ara copiem i puguem l'arxiu de config d'un company.
Tanquem workbench i tornem a obrir. Segueix donant error.

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

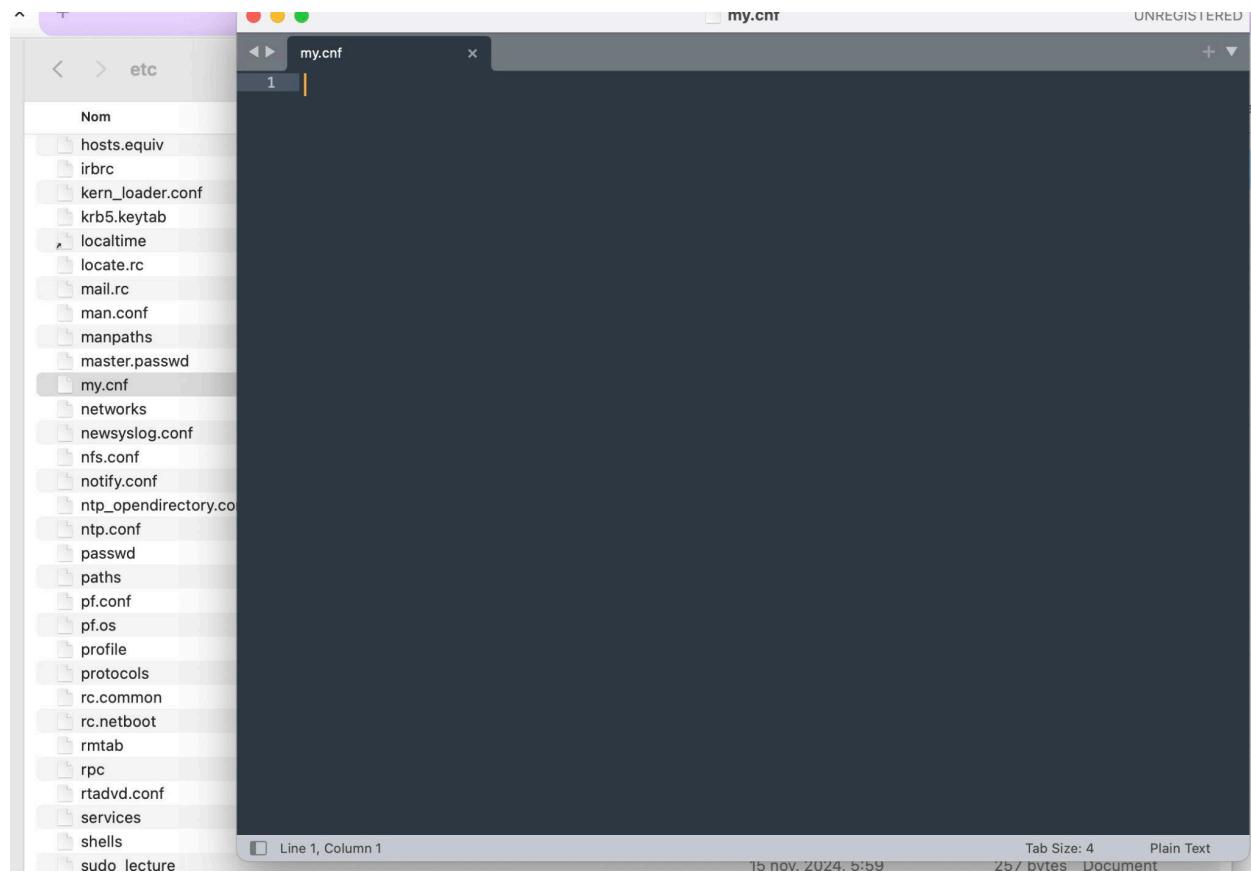
Management support for target host enabled successfully.

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

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:

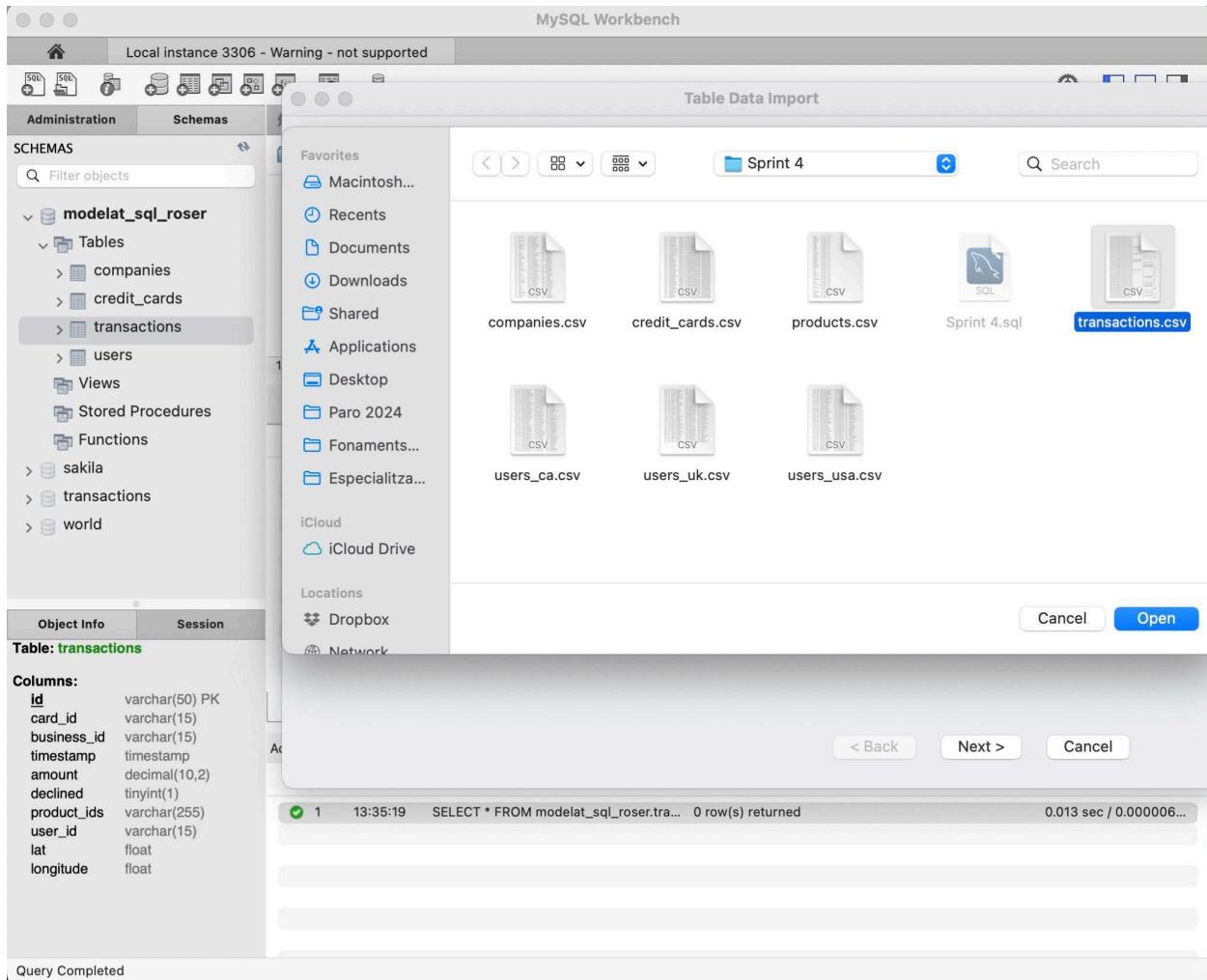
id	
card_id	
business_id	
timestamp	
amount	decimal(10,2)
declined	tinyint(1)
product_ids	varchar(255)
user_id	varchar(15)
lat	float
longitude	float

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

The screenshot shows the MySQL Workbench interface. The left sidebar displays the database structure under the 'modelat_sql_roser' schema, including tables like 'companies', 'credit_cards', and 'trans'. A context menu is open over the 'trans' table, listing various actions such as 'Select Rows', 'Table Inspector', 'Copy to Clipboard', and 'Send to SQL Editor'. The main workspace shows the results of a query: 'SELECT * FROM modelat_sql_roser.transactions;'. The results grid is empty, showing column headers like '_id', 'business_id', 'timestamp', 'amount', 'declined', 'product_i...', 'user_id', 'lat', and 'longitude'. Below the results grid is a log table with one entry: a green checkmark icon, the number '1', the timestamp '13:35:19', the query text, '0 row(s) returned', and the duration '0.013 sec / 0.000006...'. The bottom status bar indicates 'Query Completed'.



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-33563924B539	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
13FBFB312-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
1479B3D2-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	50.0770	-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". 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

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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...

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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-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
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

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@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	748-9694 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@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	Aquilla	Strickland	1-246-231-5495	enim.sit@icloud.com	Sep 28, 1982	United States	Colchester	26637	Ap #260-4612 Massa Road

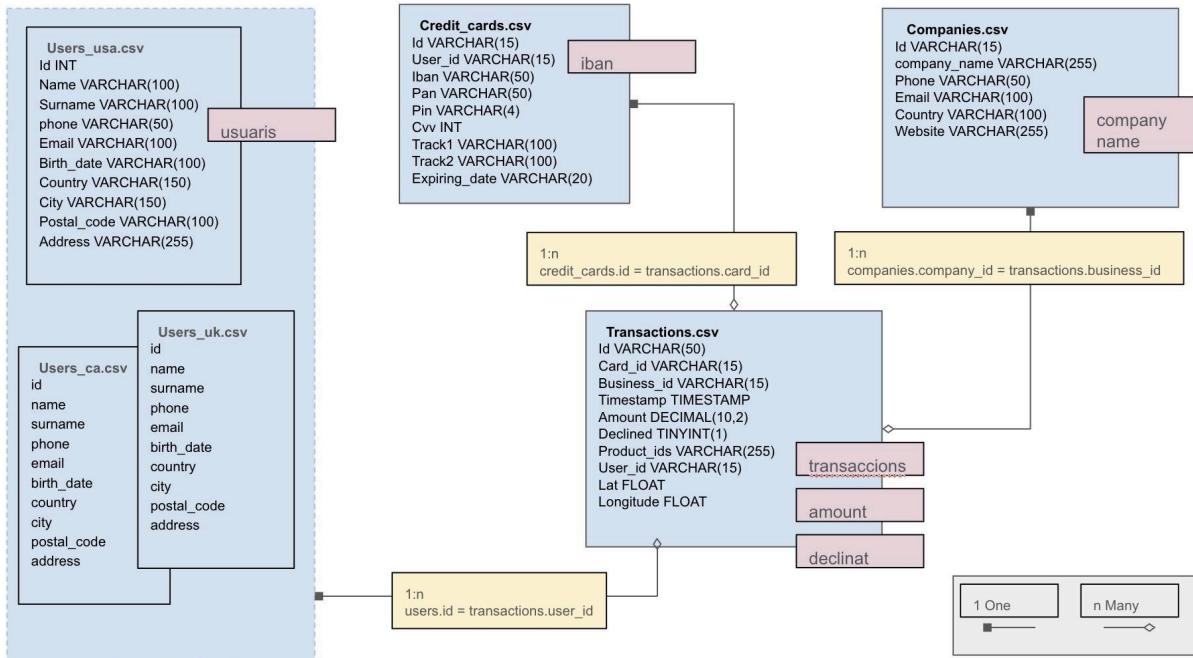
users 3

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:

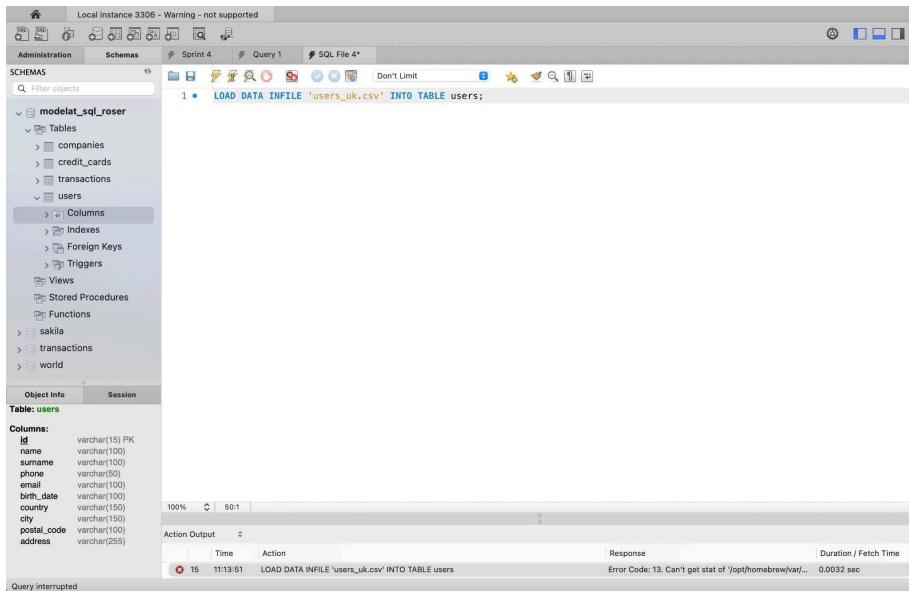
```
1 [mysqld]
2 secure_file_priv=""
3 local_infile=1
4
5 [client]
6 loose-local-infile=1
7
```

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	

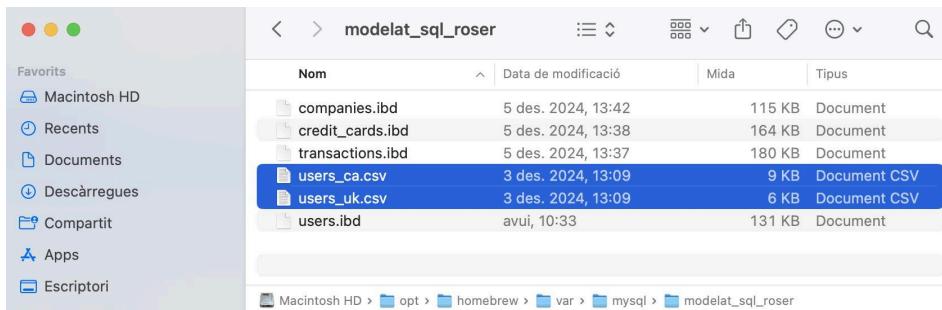
Details from the bottom window's status bar:
Action Output: 0
Time: 10:22:51
Action: SHOW VARIABLES LIKE 'secure_file_priv'
Response: 1 row(s) returned
Duration / Fetch Time: 0.0039 sec / 0.00001...

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

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

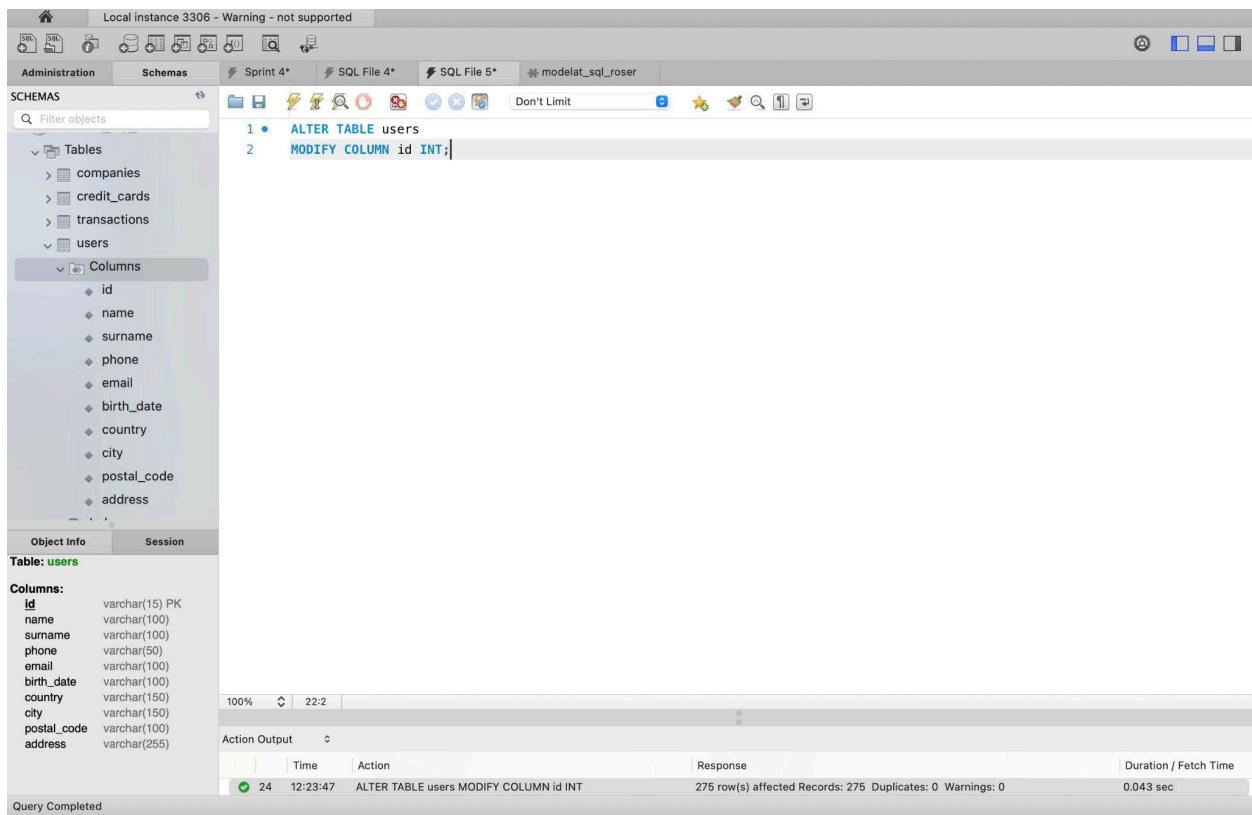
Query Completed

```

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' for 'modelat_sql_roser'. The 'Tables' section lists 'companies', 'credit_cards', 'transactions', and 'users'. The 'Columns' section for 'users' lists columns: 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 columns and their types. 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.

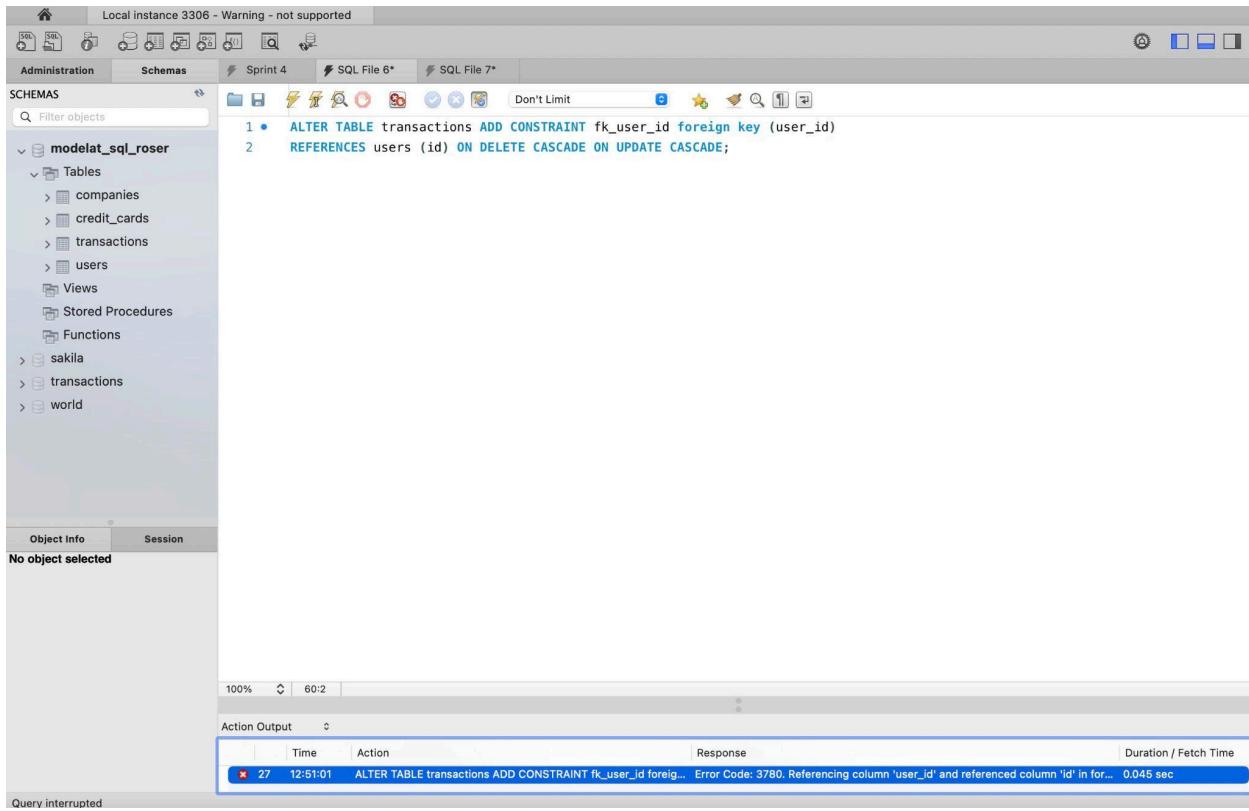
	id	name	surname	phone	email	birth_date	country	city	postal_code	address
1	Zeus	Gamble	1-282-581-0551	interdum.enim@protonmail.edu	Nov 17, 1985	United States	Lowell	73544	348-7818 Sagittis St.	
2	Garrett	Mcconnell	(718) 257-2412	integer.vitae.nibh@protonmail.org	Aug 23, 1992	United States	Des Moines	59464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

```

SELECT *
FROM users
WHERE (

```

```

    SELECT count(user_id) as transaccions_per_usuari
    FROM transactions

```

```
GROUP BY count(user_id) ) > 30;
```

- 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
WHERE declined = 0