

Base de dades

Nivell 1

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

Nivell 2

Exercici 1: targetes actives

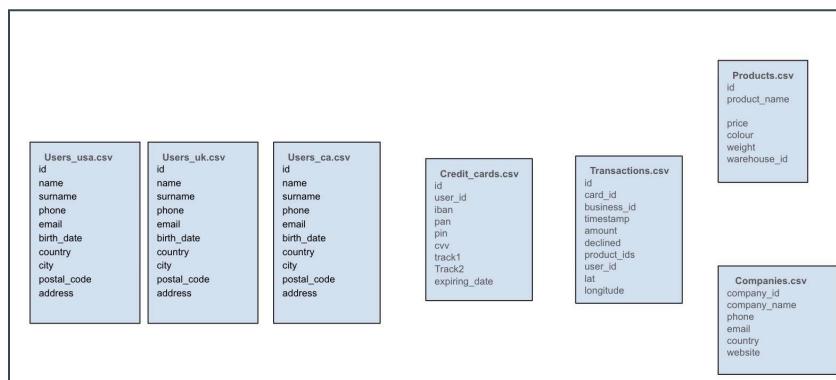
Nivell 3

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 a red, yellow, and green button, and a menu bar with 'Veure' (View), 'Zoom', 'Afegir categoria' (Add category), and 'Taula dinàmica' (Dynamic table).

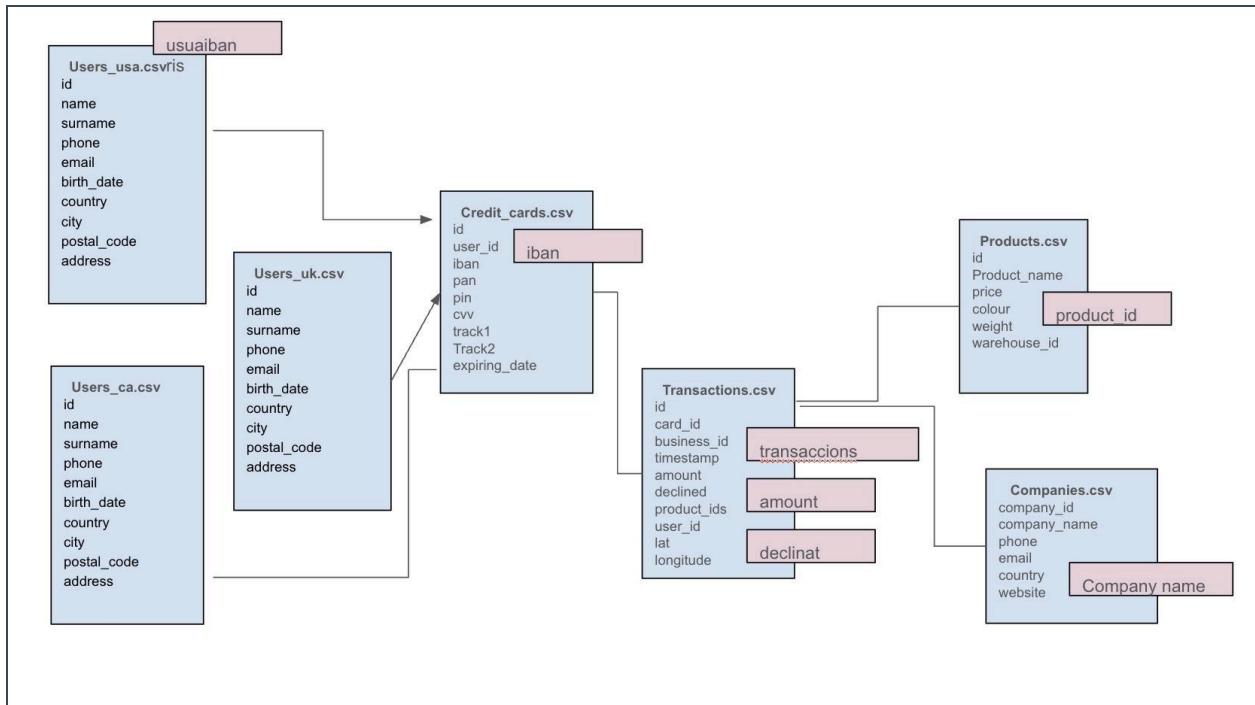
Left Window (Title: Full 1):

	A	B	C	D	E
1	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.sit@aol.org
5	154	Cooper	Bullock	(021) 3231 6627	et@outlook.ca
6	155	Joshua	Russell	055 4409 5286	istet.nec.ante@outfi
7	156	Ramiro	Case	055 3114 1566	molli.phasellus.libero@
8	157	Philip	Carry	0800 640 6251	pharetra.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	Hood	0845 46 47	convalis.est.vitae@al
16	165	Nora	Carrell	050 677716	varius.et.eusmod@poo
17	166	Matthew	Woodard	070 6461 3432	uram@outlook.net
18	167	Sheila	Dickerson	(01645) 68676	el@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@icloud.com
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	05049 221383	ipsum.prinzipal@icloud.c
27	176	Lucas	Stevenson	0800 1111	quis.peda.praser@q
28	177	Liandra	Carpenter	07624 223719	nunc@poo
29	178	Guinevere	Kemp	070 1590 7780	suscit@poo
30	179	Stuart	Small	(016977) 2504	sodales.elit@icloud.c
31	180	Amelia	Valenzuela	(016977) 9972	ac.ruta@poo
32	181	Kermit	O'Brien	078 8212 1580	cus@poo
33	182	Dawn	Sheppard	0975 985 5842	vehicula@hotmail.net
34	183	Germaine	Whitehead	(016977) 5728	malesuada.malesuada@
35	184	Uta	Ramirez	055 1225 6227	phasellus.elit@icloud.c
36	185	Molly	Gilliam	0800 120 8023	donec@outlook.co.uk
37	186	Date	Gonzalez	056 1962 2173	velit.in.aliquet@prote
38	187	David	Vance	050 351083	vulputate.veli.eu@pro
39	188	Keane	McKinney	0345 629 4218	arco@poo
40	189	Walter	Lamb	(016977) 7335	ut.erat@hotmail.edu
41	190	Shelbie	Velazquez	0500 889570	dictum.phasellus.inflo
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
46	195	Rosalyn	Blake	(015905) 28451	integer@protonmail.ne
47	196	Blaze	Duke	0800 060 8337	quis@hotmail.ca
48	197	Carly	Mathews	(024) 5216 7655	maurus@protonmail.ed
49	198	Keely	Fox	0800 1111	ic@mail@google.co
50	199	Lewis	Melendez	(016977) 5758	non@yahoo.ca
51	200	Nero	Mills	056 4507 5712	adipiscing@protonma

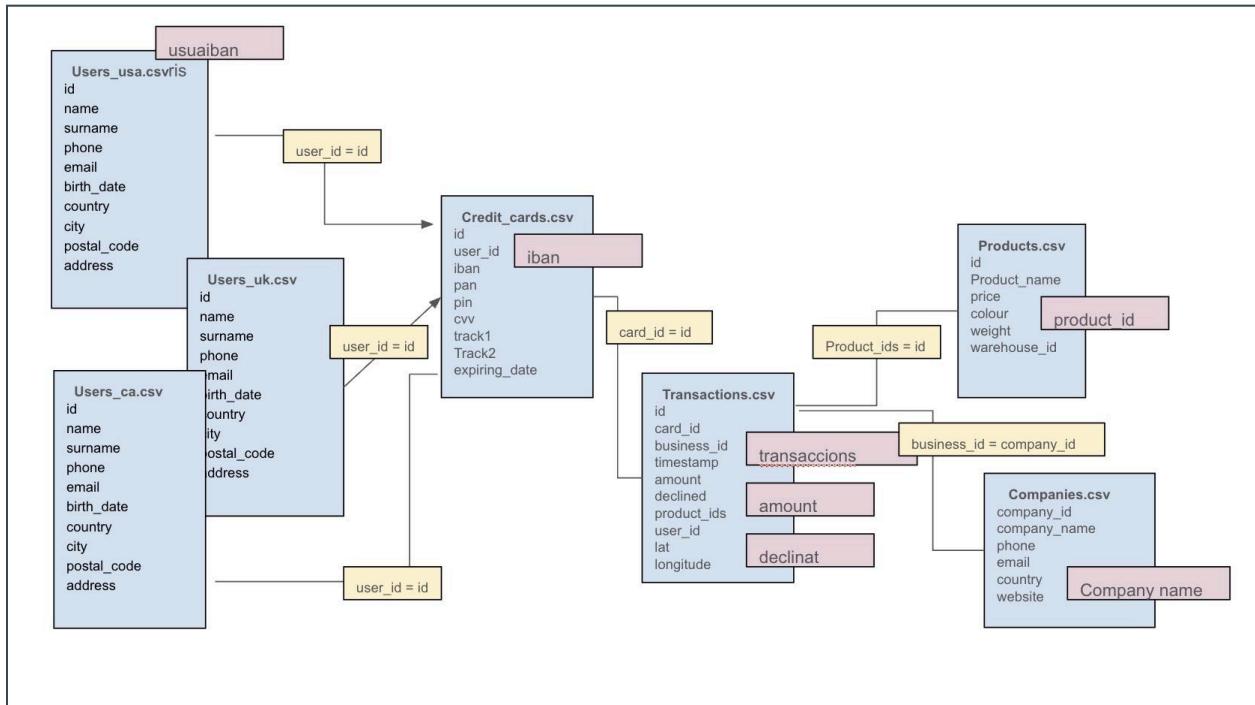
Right Window (Title: Full 1):

	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

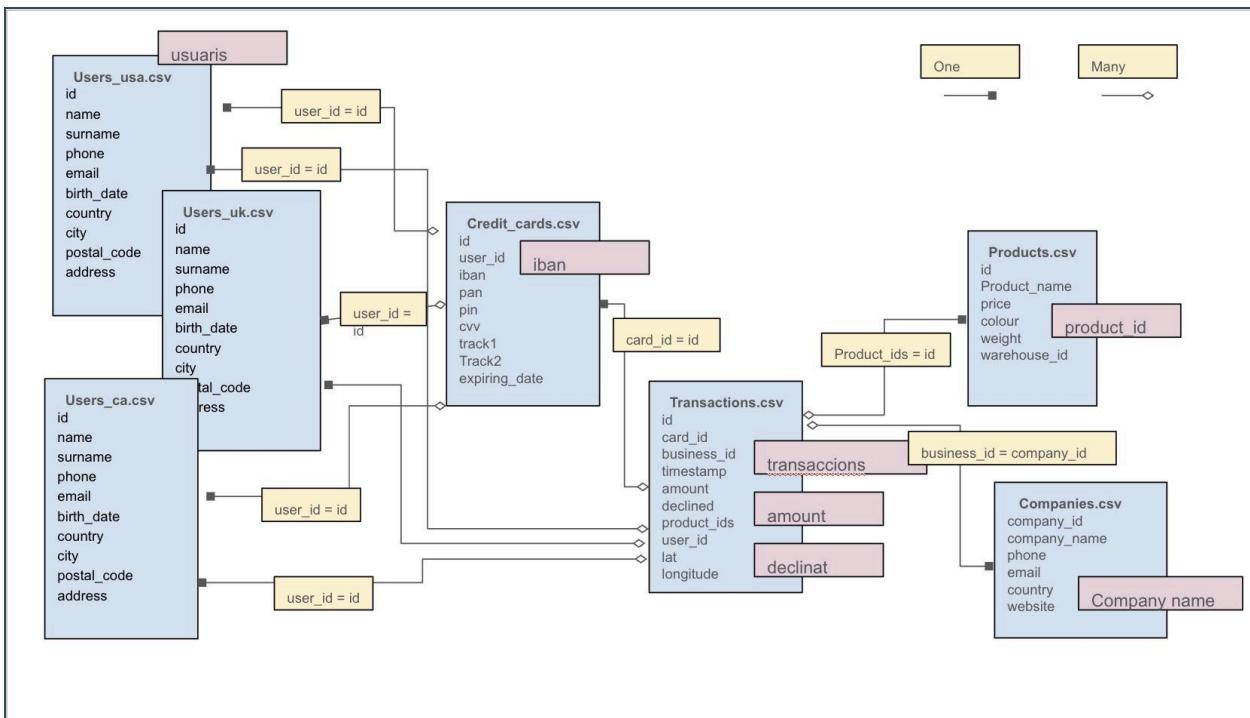


Li afegeixo en groc el qu sospito que relaciona les taules

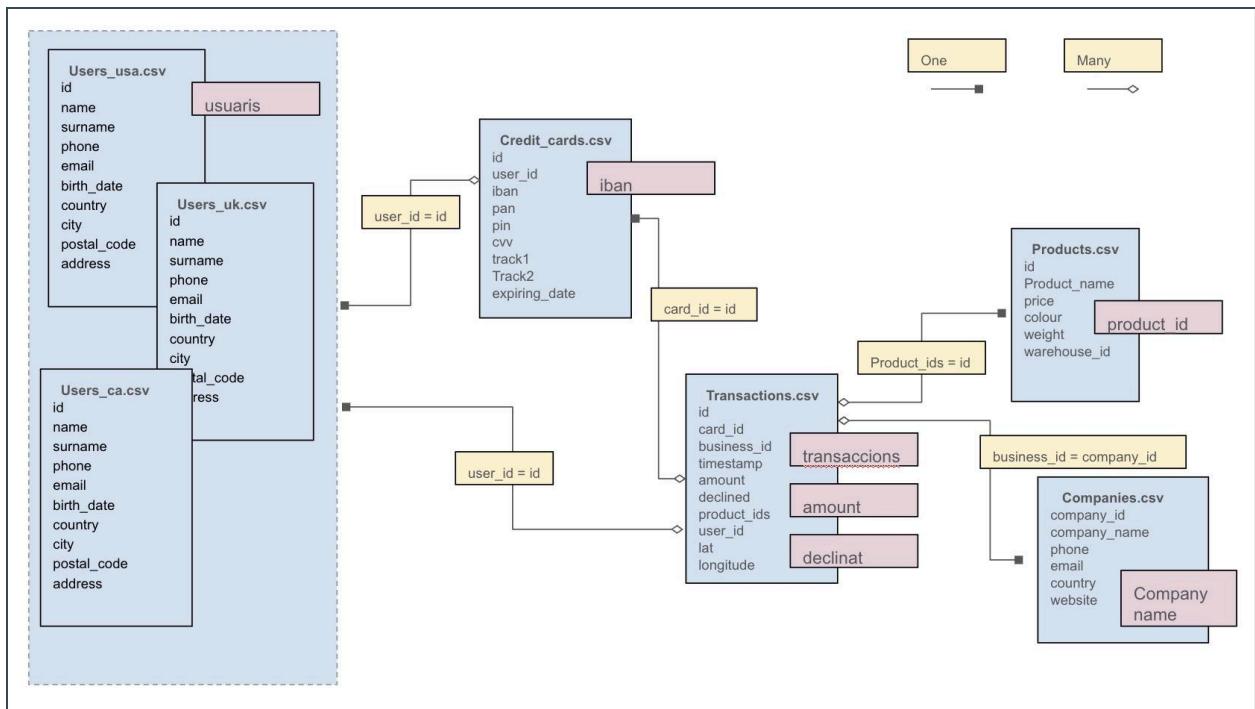


Potser val la pena juntar totes les taules de users i poder simplificar aquesta relació amb credit card per a que sigui de 1 a molts

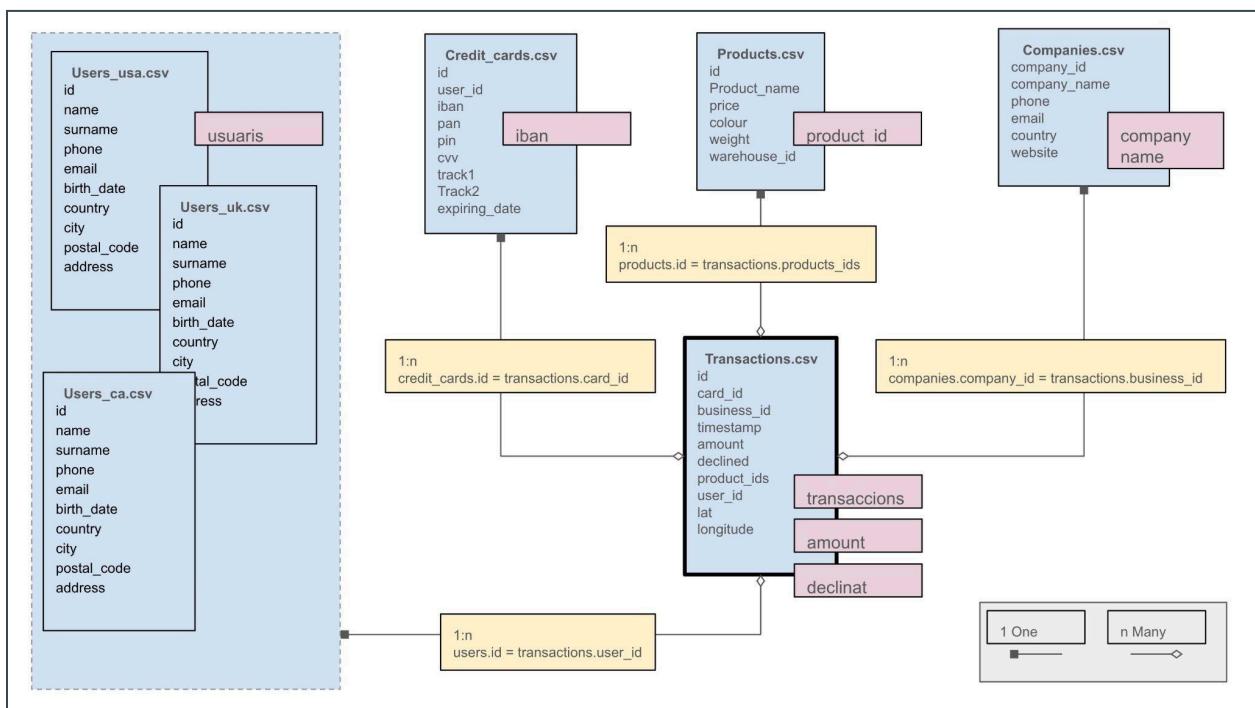
Intentem ser més clars amb les relacions al diagrama. A més, ens hem adonat que el user_id també apareix a transaccions, així que les relacions són encara més complicades



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



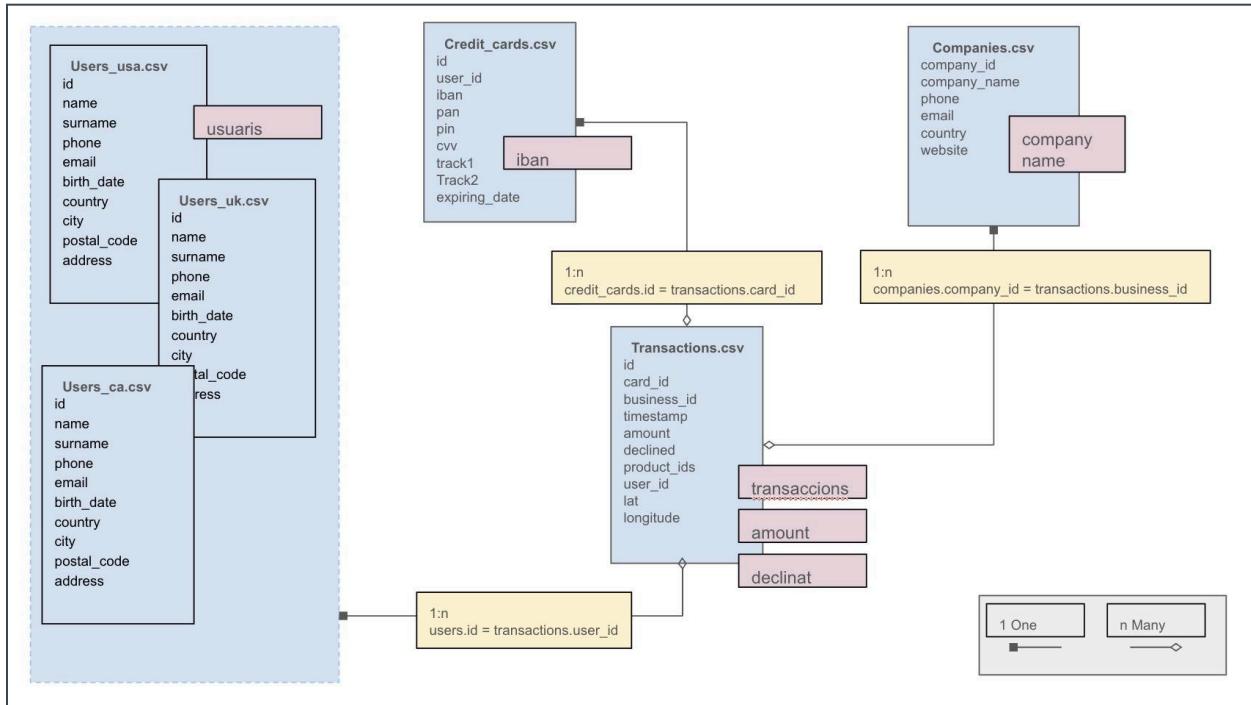
Però aquestes relacions triangulades no són recomanables i a més ens demanen una esquema d'estrella, així que treurem una de les relacions. Potser no ens interessa de qui usuari és realment la targeta, sinó qui usuari la fa servir.



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:** Displays the SQL command to create a new database:

```
-- 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.

```

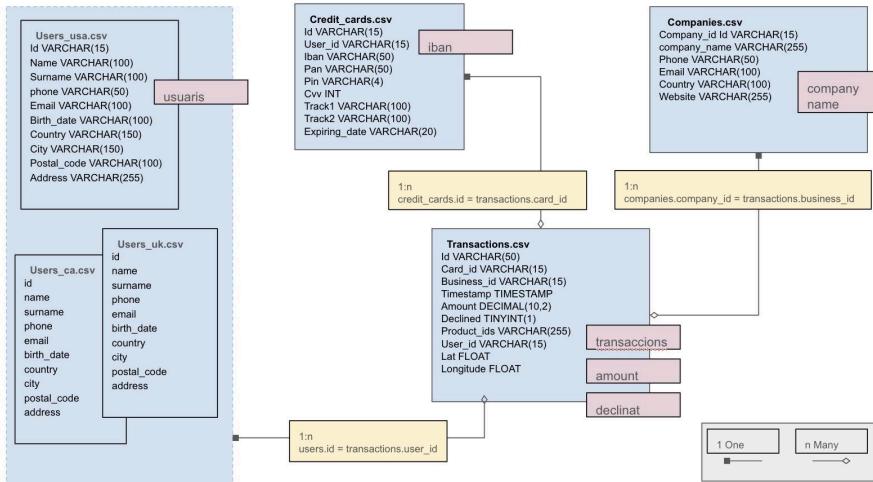
USE modelat_sql_roser;
-- Creem la taula users
CREATE TABLE IF NOT EXISTS users (
    id VARCHAR(15) PRIMARY KEY
);
-- Creem la taula credit cards
CREATE TABLE IF NOT EXISTS credit_cards (
    id VARCHAR(15) PRIMARY KEY
);
-- Creem la taula transactions
CREATE TABLE IF NOT EXISTS transactions (
    id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

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 'Session' tab is selected. In the center, a query editor window displays the following SQL command and its result:

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

The result grid shows one row:

Variable_name	Value
secure_file_priv	NULL

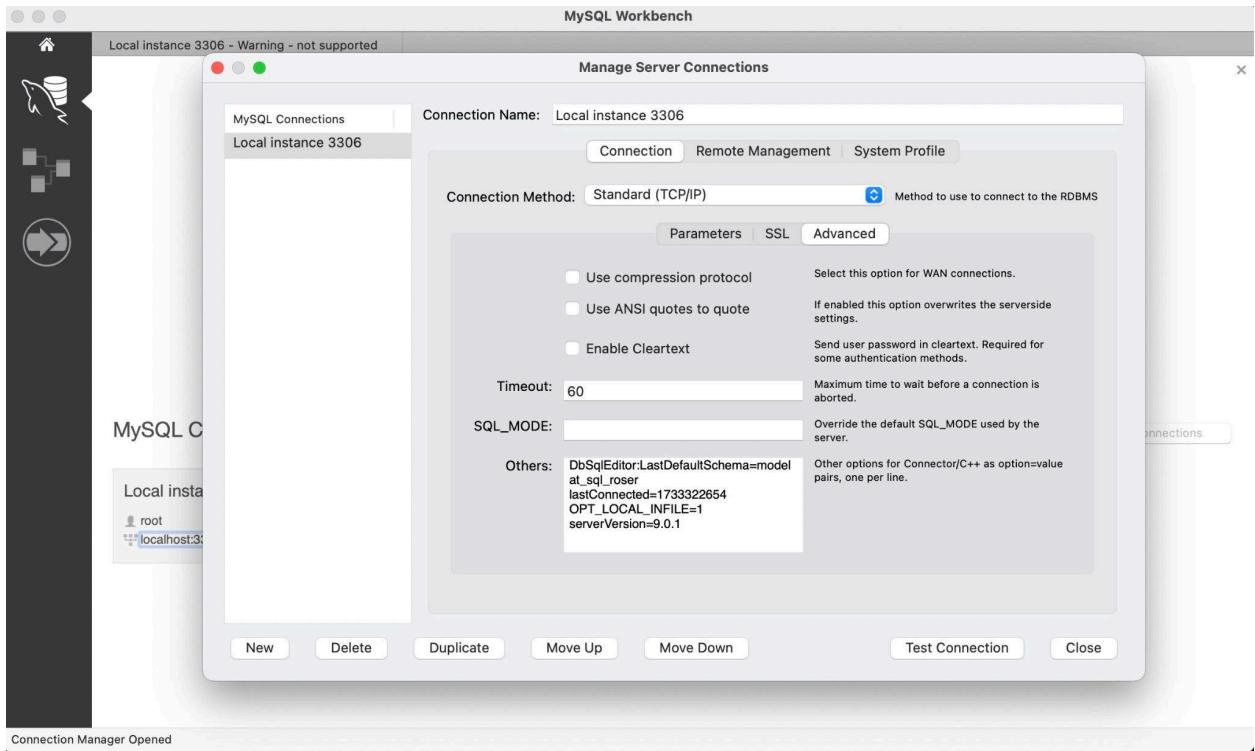
At the bottom of the interface, the status bar indicates "Query Completed".

https://dev.mysql.com/doc/refman/8.0/en/server-system-variables.html#sysvar_secure_file_priv

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

Local instance 3306 - Warning - not supported

Administration Schemas

SCHEMAS

modelat_sql_roser

Tables Views Stored Procedures Functions

Object Info Session

No object selected

Query 1 Sprint 4* SQL File 4*

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

2

100% 1:2

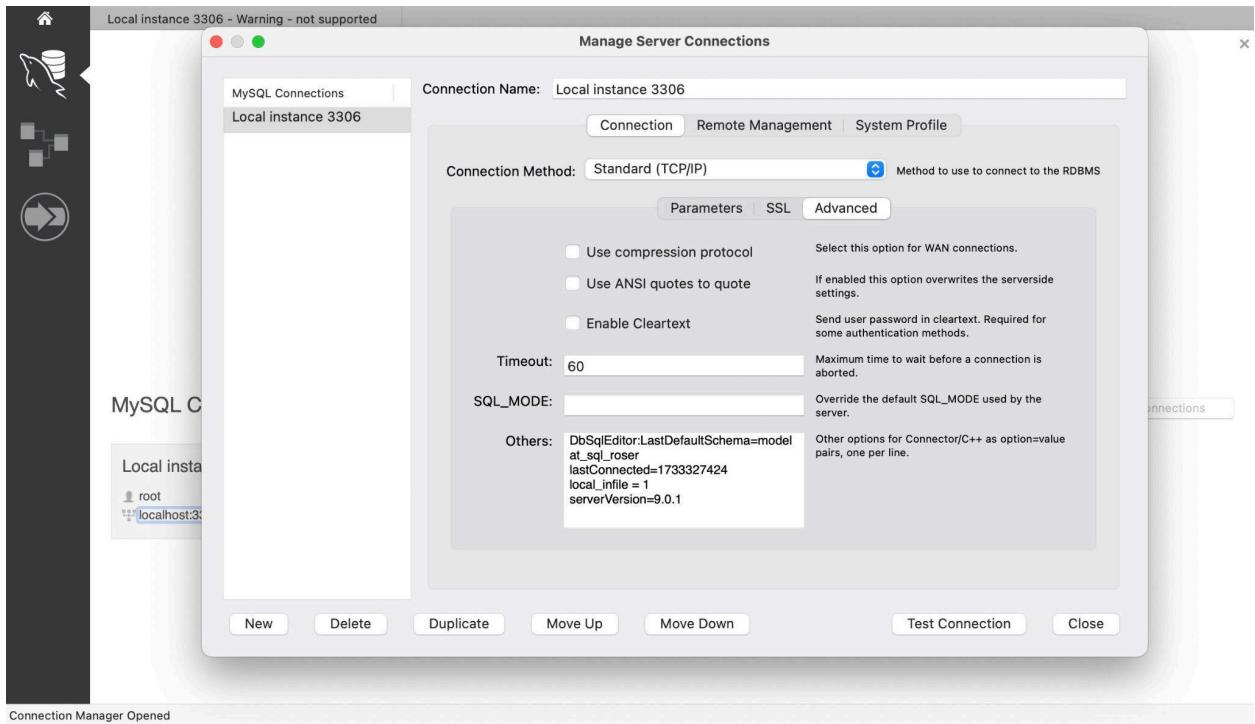
Action Output

Time	Action	Response	Duration / Fetch Time
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



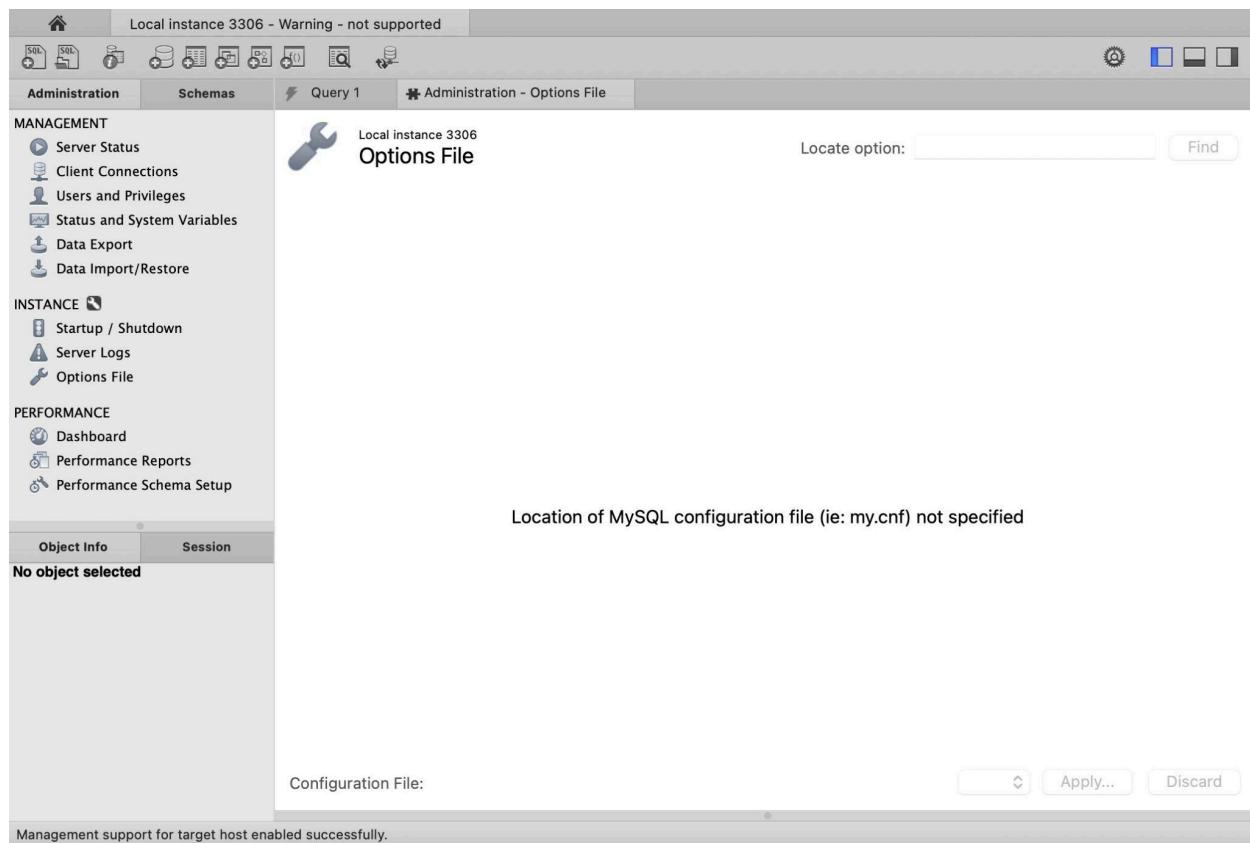
I continua en NULL

Variable_name	Value
secure_file_priv	NULL

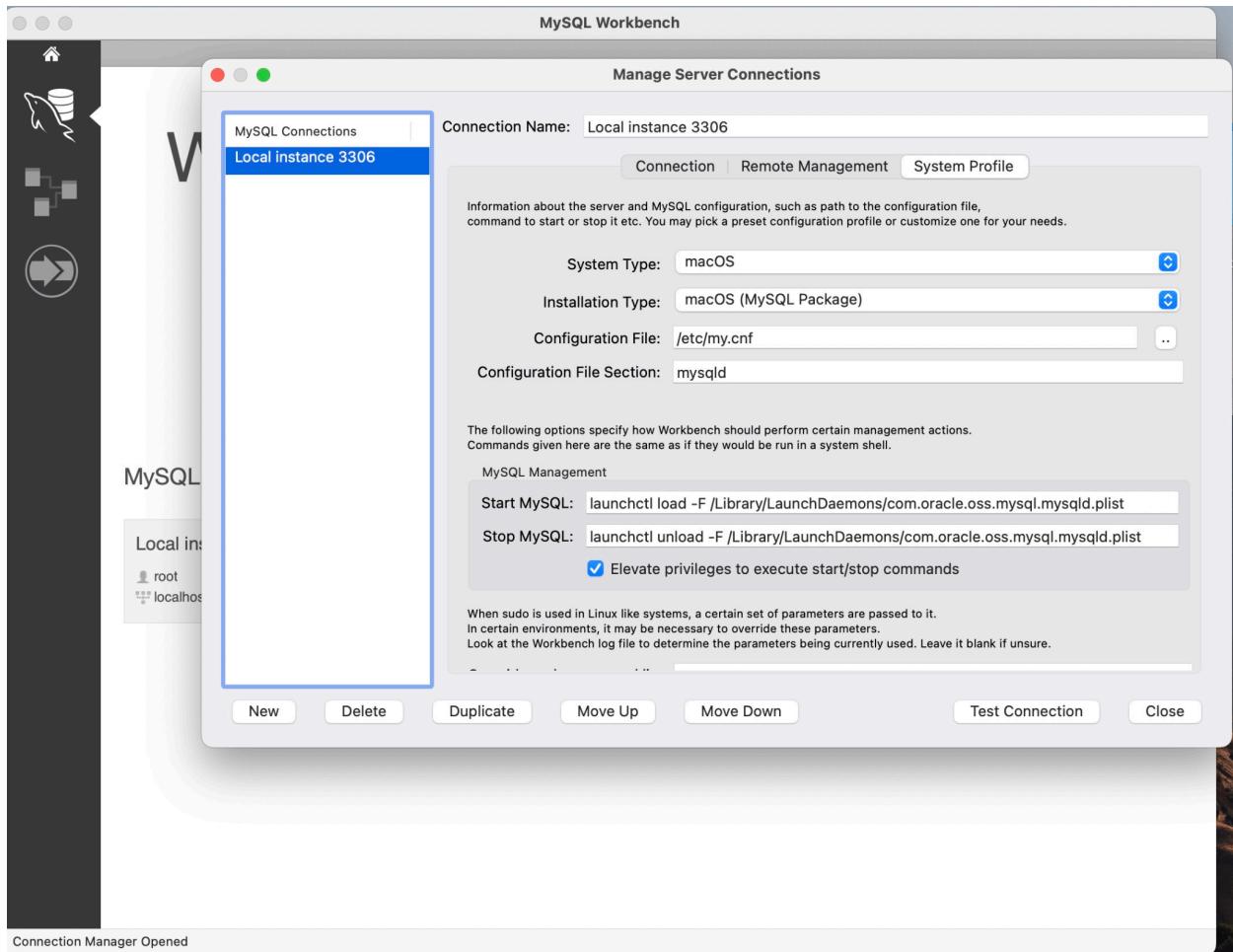
Action Output

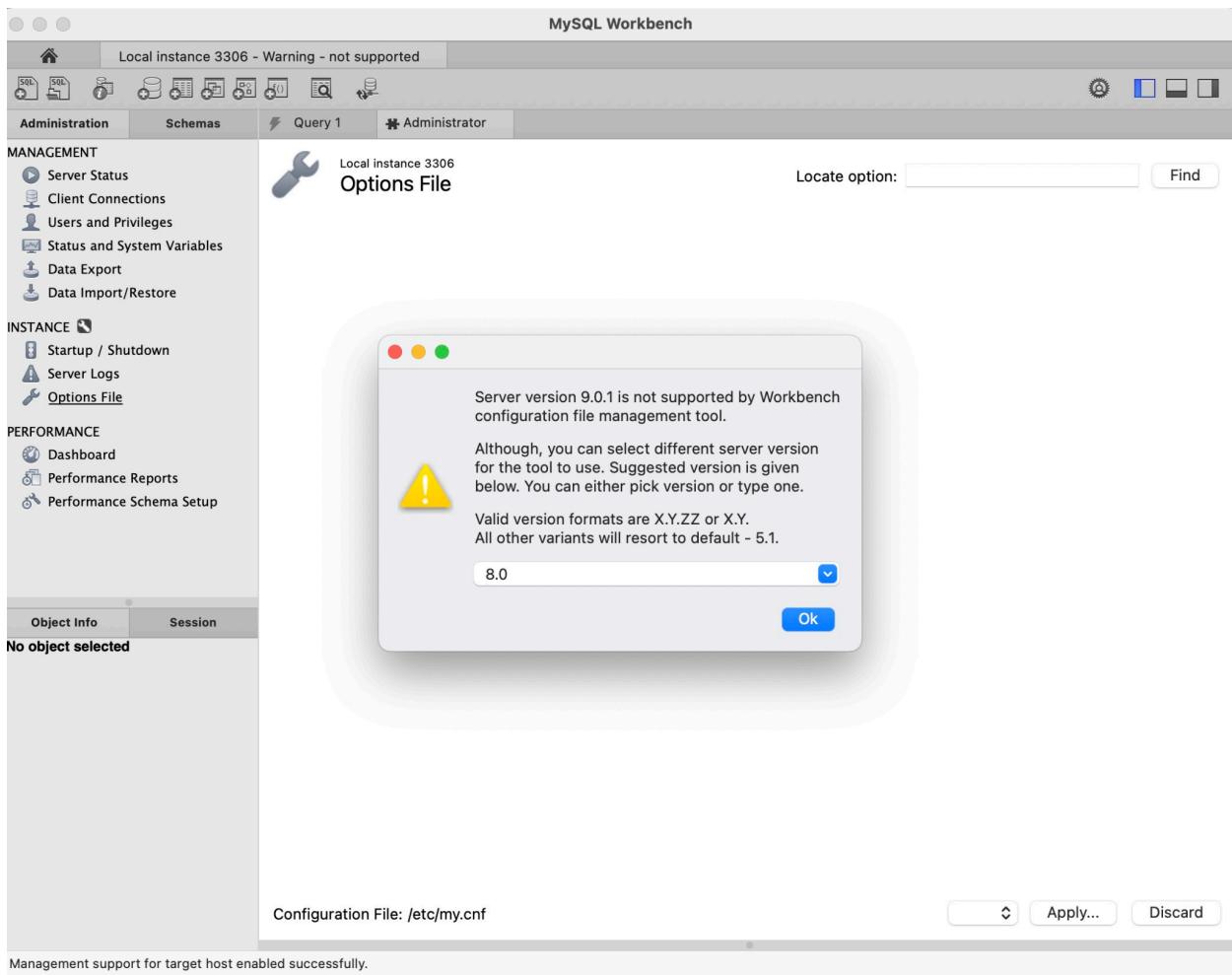
Time	Action	Response	Duration / Fetch Time
16:51:58	show variables like 'secure_file_priv'	1 row(s) returned	0.0037 sec / 0.00001...

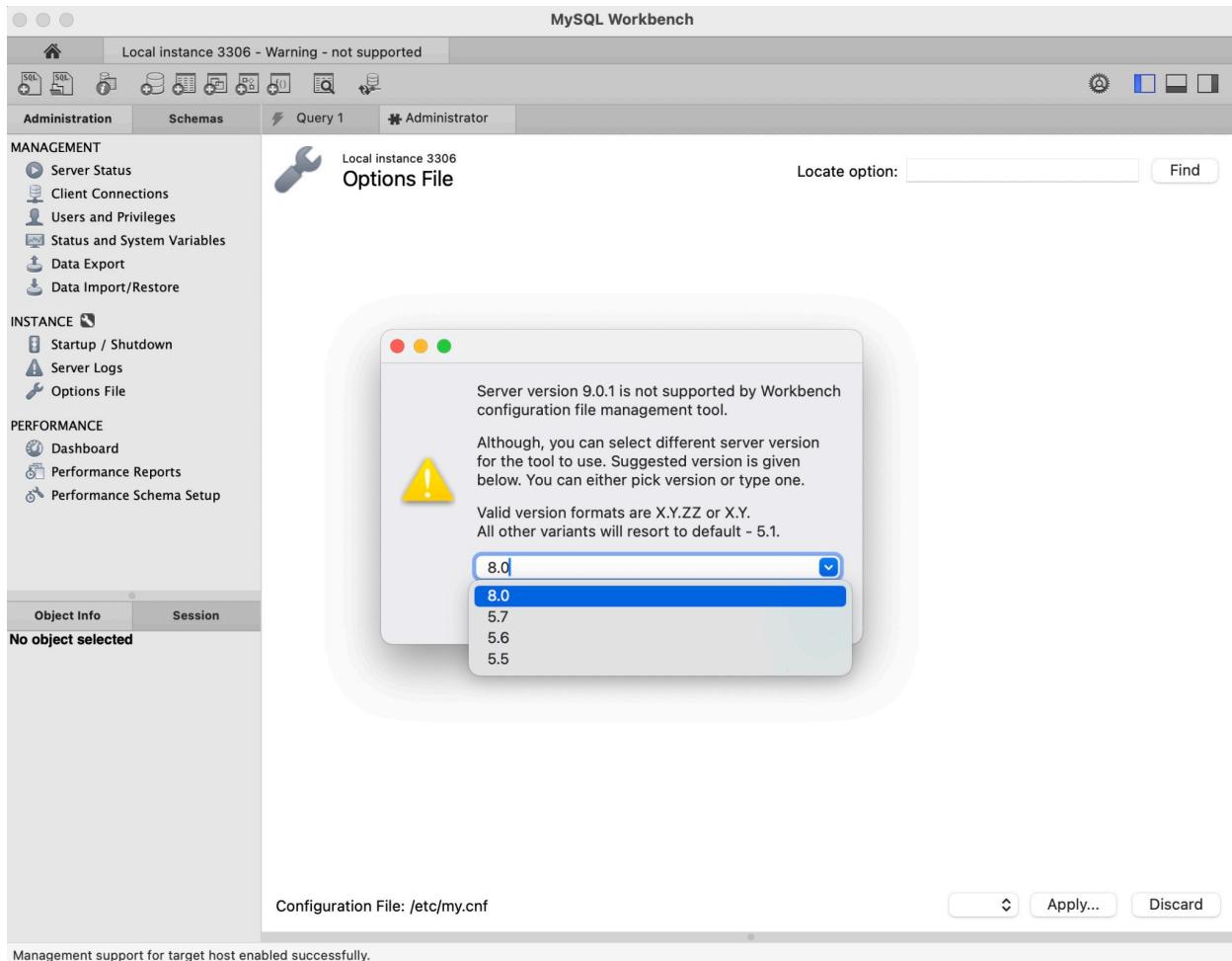
Segons [aquest article](#), MySQL Workbench pot buscar l'arxiu my.cnf a Mac, i si no el troba, ens el crea. Hem seguit les instruccions i no ens l'ha creat.

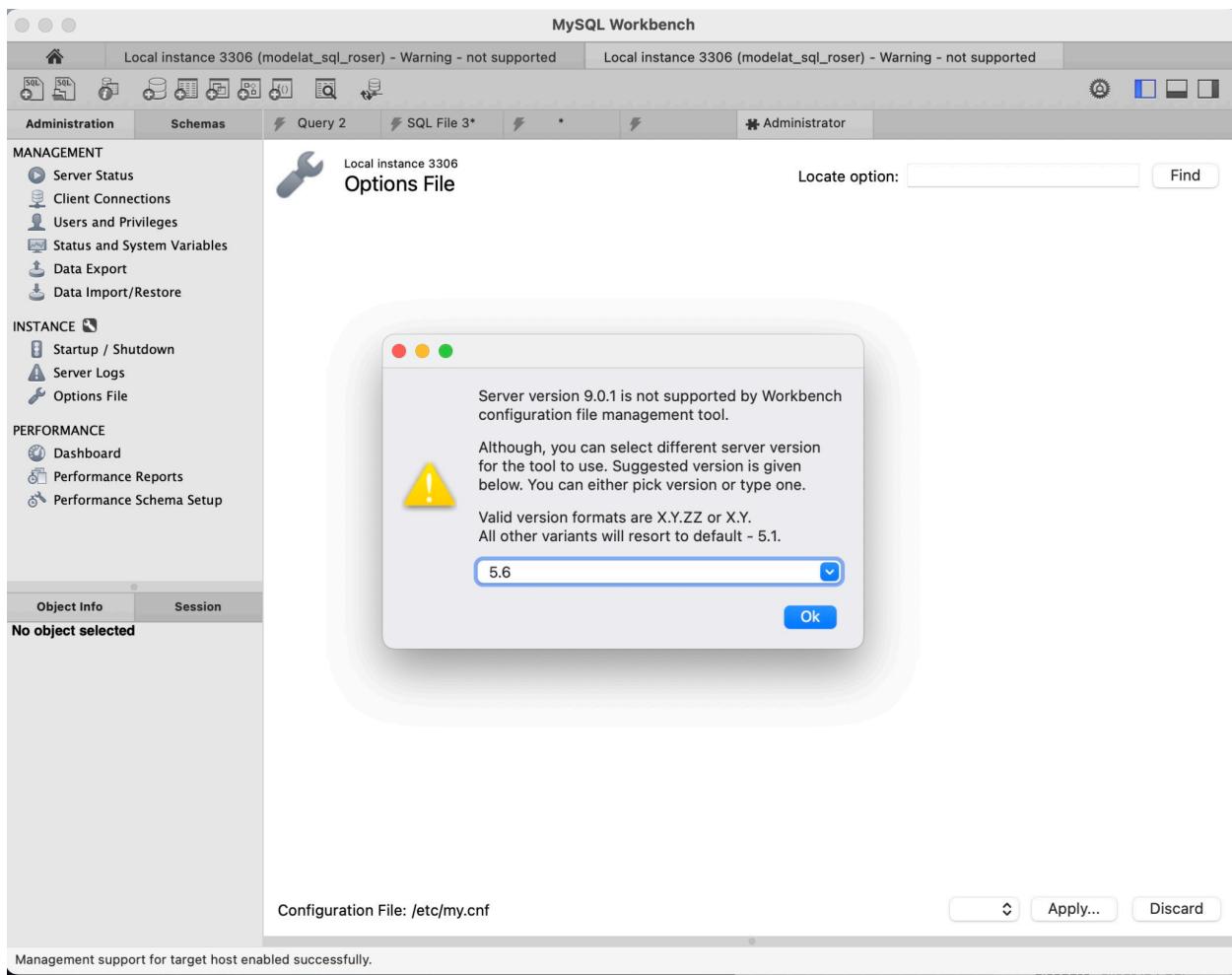


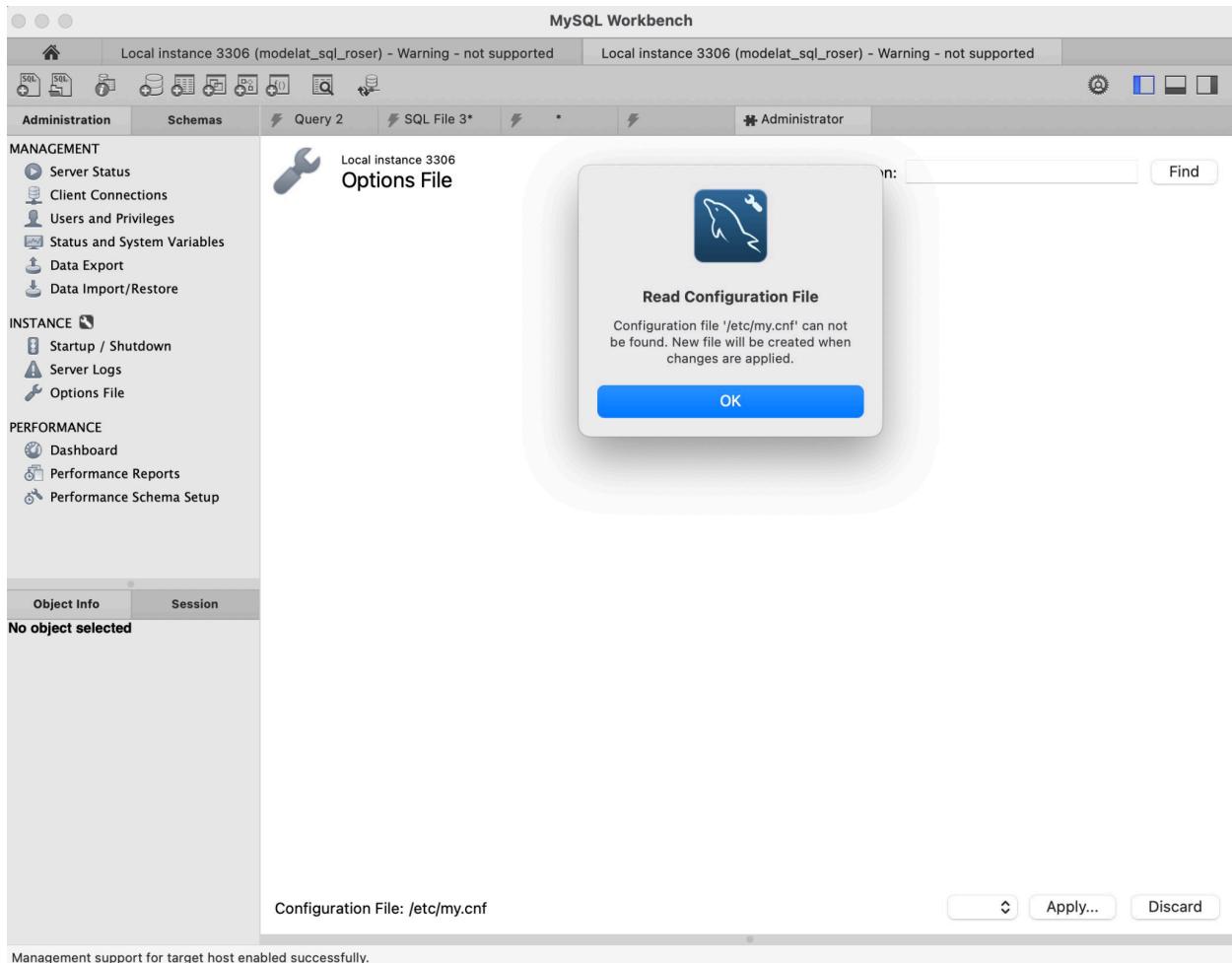
Hem seguit els passos [d'aquesta resposta](#) per a forçar la creació d'aquest fitxer. De pas ens ha baixat la versió de SQL.

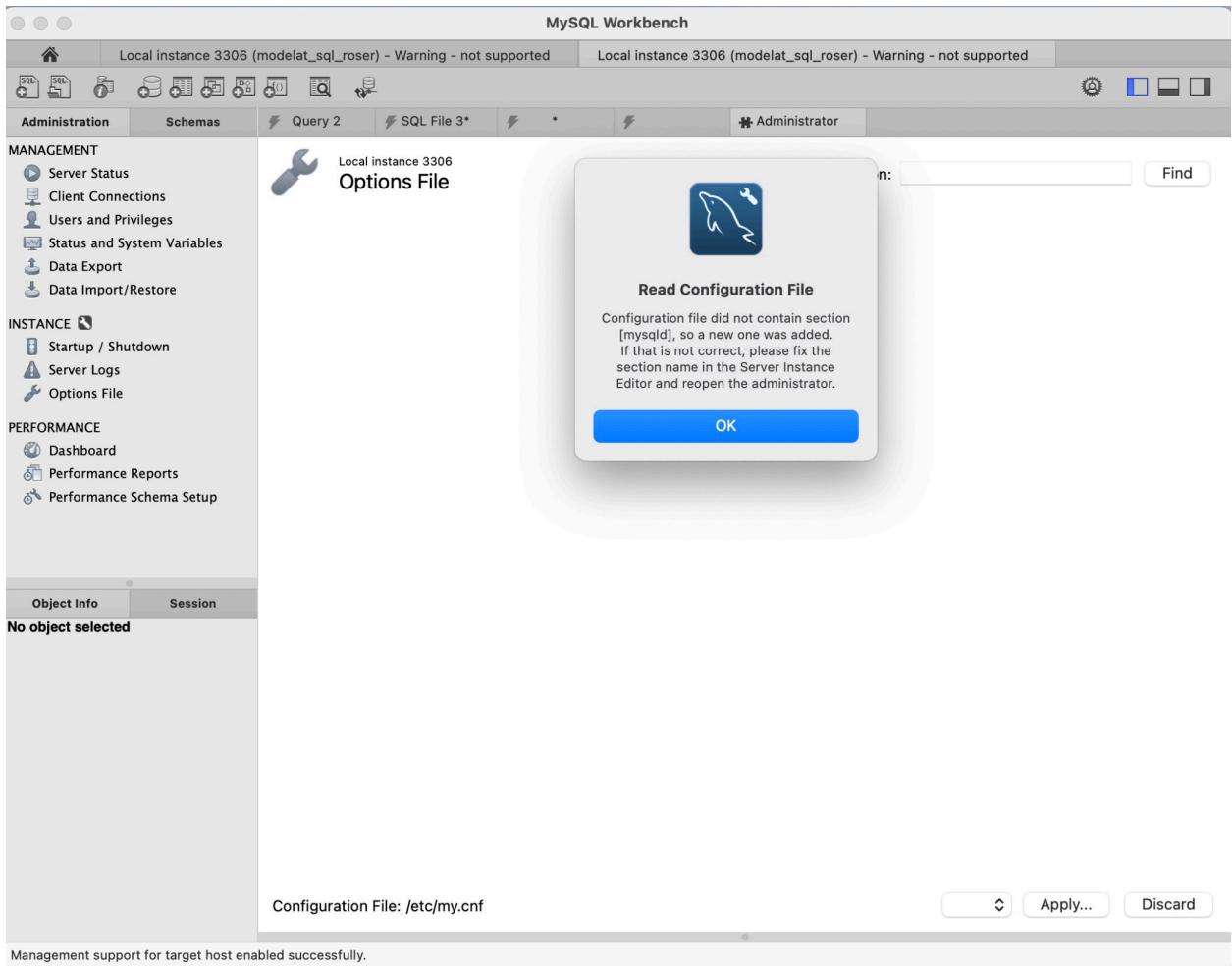












Ara copiem i puguem l'arxiu de config d'un company.
Tanquem workbench i tornem a obrir. Segueix donant error.

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

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

- Top Bar:** Local instance 3306, Administration - Server Status.
- Left Sidebar (MANAGEMENT):**
 - Server Status (highlighted)
 - Client Connections
 - Users and Privileges
 - Status and System Variables
 - Data Export
 - Data Import/Restore
- Left Sidebar (INSTANCE):**
 - Startup / Shutdown
 - Server Logs
 - Options File
- Left Sidebar (PERFORMANCE):**
 - Dashboard
 - Performance Reports
 - Performance Schema Setup
- Central Content Area:**
 - Connection Name:** Local instance 3306
 - MySQL Server Icon:** Shows a blue dolphin icon with "MySQL Server" text.
 - Server Status:** Stopped (red square icon)
 - Metrics:**
 - CPU/Load: ---
 - Connections: ---
 - Traffic: ---
 - Key Efficiency: ---
 - Selects per Second: ---
 - InnoDB Buffer Usage: ---
 - InnoDB Reads per Second: ---
 - InnoDB Writes per Second: ---
 - 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:**

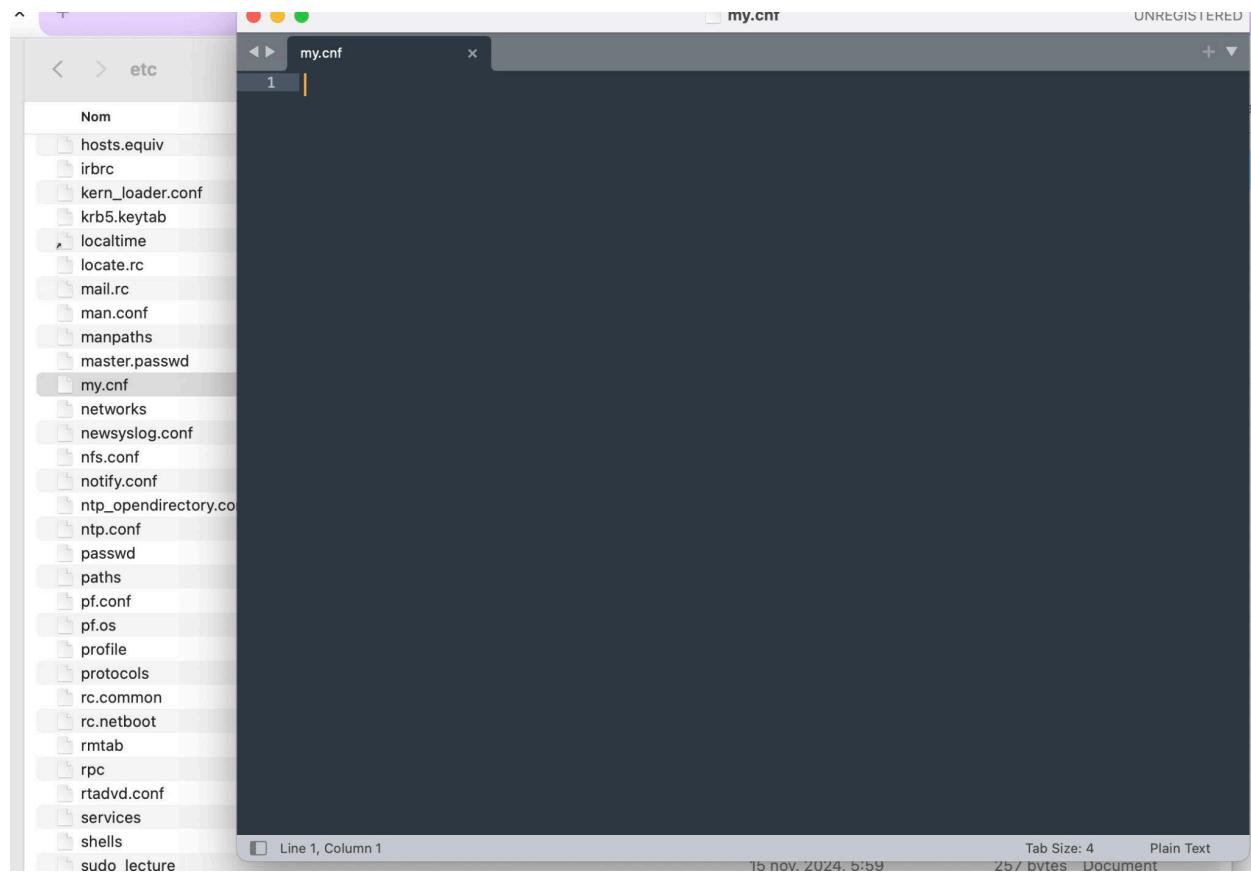
Base Directory:	n/a
Data Directory:	n/a
Disk Space in Data Dir:	unable to retrieve
Plugins Directory:	n/a
Tmp Directory:	n/a
Error Log:	n/a
General Log:	On
Slow Query Log:	On
 - Replica:** Management support for target host enabled successfully.

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:

	Type
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

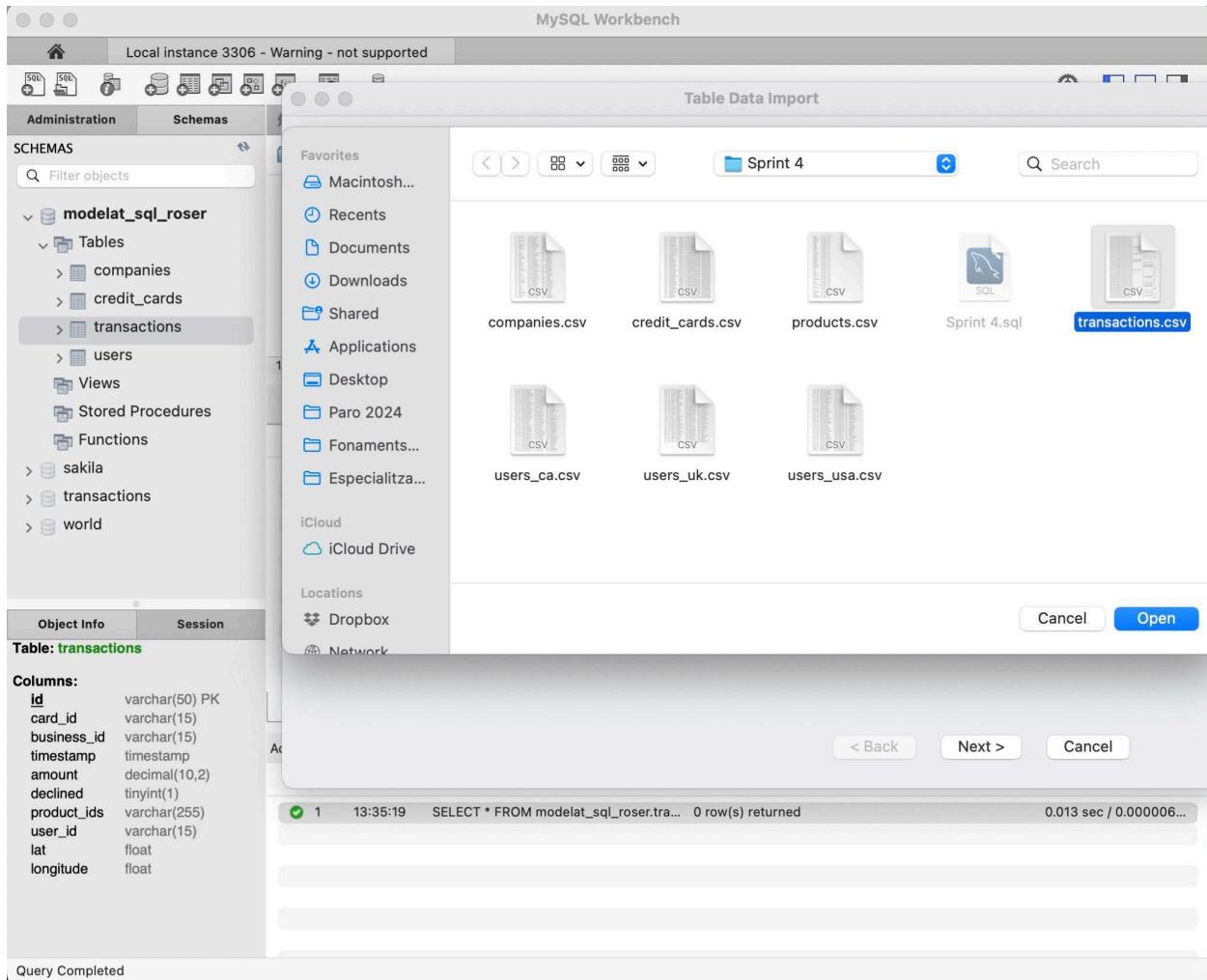
1 13:35:19 SELECT * FROM modelat_sql_roser.transactions 0 row(s) returned 0.013 sec / 0.000006...

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-03563924B539	CcU-4382	b-2302	2022-02-26 20:33:54	430.49	0	29, 41, 11	221	-56.4901	114.801
0BE8B0B7-90D6-1707-CE4B-9DC7E71914B5	CcU-3141	b-2338	2022-03-04 14:54:35	288.81	1	19, 41, 29, 3	272	23.3264	-13.8037
0C7C3A33-9947-3BC1-8460-7E3D0D17598	CcU-3392	b-2434	2021-04-10 20:58:41	103.44	1	89, 31	272	63.3615	-68.6667
0CE957A6-CCAA-2B7A-6839-AAB1B324853	CcU-3435	b-2506	2022-02-02 07:29:36	428.69	1	83, 43, 73, ...	269	-69.3537	-10.26
0DD2E5608-5C9E-D1B3-4999-899F43AD735A	CcU-2959	b-2234	2021-04-17 05:30:17	252.47	1	7, 47, 17	275	9.68811	130.282
1017AA59-3D5F-7AAC-1992-D151ABD1FA0A	CcU-3701	b-2618	2021-11-01 01:02:11	447.11	0	37, 13	267	4.27645	-101.554
1026DA24-8929-31F1-8250-D7BA0B5C13D2	CcU-2992	b-2346	2021-12-07 09:30:38	465.31	0	89, 11, 97, 79	92	32.0646	-140.147
108EB1D1-5B23-A76C-55EF-C568E49A05D0	CcU-2934	b-2222	2021-07-07 17:43:16	293.57	0	59	275	83.7830	-178.86
10A9B07A-810C-76E8-4D15-12C66C128037	CcU-3155	b-2346	2021-05-16 21:00:28	27.85	1	43, 83	272	-32.0556	-76.7281
11A1BED097-EA12-1B9A-96F0-A93ACC172179	CcU-3981	b-2362	2021-07-14 20:55:48	157.20	0	29	68	-78.8402	8.76182
122DC333-E19F-D629-DCD8-8C54C1F1EB9A	CcU-4366	b-2302	2021-06-09 06:04:14	172.01	0	1, 67, 19	221	29.6372	-166.173
133382CC-DE56-8604-2D11-3DC5449E0A5F	CcU-3407	b-2490	2021-04-02 05:17:46	348.88	1	29	271	62.3246	101.017
135267BA-2E7D-957C-C42C-6450A2B3ED54	CcU-4520	b-2302	2021-12-29 20:38:23	17.97	0	11, 71	210	20.6724	14.9732
13DCC69F-EA07-E52B-8309-D474C6281E80	CcU-3197	b-2370	2021-06-02 04:10:57	50.09	1	97, 29, 23	272	32.3746	165.016
13FB8B312-B283-7976-D447-14DE5986218A	CcU-3392	b-2466	2021-10-30 13:42:44	80.58	1	11, 29, 43, 79	272	20.2369	-117.885
1479B83D-B7BA-C7B8-4CE3-8D7C2DE85AB9	CcU-2994	b-2326	2021-08-09 00:58:07	309.45	0	89, 41, 59	133	66.2672	172.399
14CAE5B5-8FB1-3E4A-4C85-0EA416753A4F	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-045020CEP200	CcU-0950	b-0940	2021-04-09 02:05:16	104.16	0	5,	20	50.0729	-170.204

Action Output

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

Query Completed

Importem el de credit_cards

Local instance 3306 - Warning - not supported

Administration Schemas

Select Destination

Select destination table and additional options.

Use existing table: modelat_sql_roser.credit_cards

Create new table: modelat_sql_roser . credit_cards

Truncate table before import

Table: credit_cards

Columns:

id	varchar(15) PK	
user_id	varchar(15)	
iban	varchar(50)	
pan	varchar(50)	
pin	varchar(4)	
cvv	int	
track1	varchar(100)	
track2	varchar(100)	
expiring_date	varchar(20)	

Action Output

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

Query Completed

Local instance 3306 - Warning - not supported

Administration Schemas

Configure Import Settings

Detected file format: csv

Encoding: utf-8

Source Column Dest Column

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

Table: credit_cards

Columns:

id	varchar(15) PK								
user_id	varchar(15)								
iban	varchar(50)								
pan	varchar(50)								
pin	varchar(4)								
cvv	int								
track1	varchar(100)								
track2	varchar(100)								
expiring_date	varchar(20)								

Action Output

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

Query Completed

Local instance 3306 - Warning - not supported

Administration Schemas

SCHEMAS

Filter objects

- modelat_sql_rosler
 - Tables
 - companies
 - credit_cards**
 - transactions
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 - Functions
- sakila

Table Data Import

Import Results

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

Local instance 3306 - Warning - not supported

Administration Schemas

SCHEMAS

Filter objects

- modelat_sql_rosler
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 - Functions
- sakila
- transactions
- world

Query 1

```
1 • SELECT * FROM modelat_sql_roser.credit_cards;
```

Result Grid

id	user_id	iban	pan	pin	cvv	track1	track2	expiring_date
Ccu-U-2938	275	TR301950312213176817638661	5424465566813633	3257	984	%B8383712448554648%WowsxejDpwiev%86041...	%B7653863056044187=800716333673	10/30/2024
Ccu-U-2945	274	DO26854763748537475216568899	5142438821948828	9080	887	%B462131609958611%UftyfslSeimxn%061062...	%B419568437843501=510714033071	08/24/2024
Ccu-U-2952	273	BG451VOL52710525608255	4556 453 55 5287	4598	438	%B2183285104307501%CddytsCuxfdq%59079...	%B6778580257827162=6906859740077	06/29/2024
Ccu-U-2959	272	CR724247724435841535	372461377349375	3583	667	%B721119579502%XocddjbCbkx%090162...	%B426154489281853=280522391678	02/24/2024
Ccu-U-2966	271	BG72LKTQ1526726377363	448568 86747 7265	4900	130	%B478932237256222%JhgvslFbmwgj%72022...	%B231857115599881=890821578475	10/29/2024
Ccu-U-2973	270	PT87062281350924945634	544 58654 54343 384	8760	887	%B478932237256222%JhgvslFbmwgj%72022...	%B231857115599881=890821578475	01/30/2024
Ccu-U-2980	269	DE3924188188306277138	402400 7145845969	5075	596	%B73048393870549%OokzqrHpased%49017...	%B2474313962214151=041221913175	07/24/2024
Ccu-U-2987	268	GE8986143483774871813	3763 747687 76666	2299	797	%B47610525275753%HjinjipobJrj%710851...	%B7816198931446746=1310272729	10/31/2024
Ccu-U-2994	267	BH8271442836806676529	344283273252593	7545	595	%B158579784015678%GmaphytUtgqm%25078...	%B14146747302439=6506800955074	02/28/2024
Ccu-U-3001	266	CY49087426654774581266832110	511722 924833 2244	9562	867	%B429355750963453=530526830573	%B6235123731781366=404563816678	09/16/2024
Ccu-U-3008	265	LU507216693616119230	4485744464433884	1856	740	%B718449430529228%McuklytTrdpo%17081...	%B6235123731781366=404563816678	04/05/2024
Ccu-U-3015	264	PS11998216295715968342458821	3784 682233 17389	3246	822	%B57652010724742%OvvzkrCvWvm%5305...	%B3661372148267521=190547316677	01/31/2024
Ccu-U-3022	263	GT91695162850556977423121857	5164 1370 4842 3951	5610	342	%B8456221123375%XmwxhenKwxbt%0508...	%B7761154174374063=230423342974	04/25/2024
Ccu-U-3029	262	AZ82361741398244141812379746	3429 279566 77631	9700	505	%B2516052757181186=580245381976	%B4377026757181186=580245381976	09/02/2024
Ccu-U-3036	261	AZ393360029584286584394194	3768 451556 48766	2232	565	%B4811576454466431%CsatzzwEpgql%920591...	%B7259434322796515=530546049573	10/27/2024
Ccu-U-3043	260	TN648814310514852179538	455676 6437463635	5969	196	%B672272857628648%WxilicFmpvdy%28088...	%B727867073512632=740369024475	10/09/2024
Ccu-U-3050	259	FR516774436917583683154477	4024007123722	4843	124	%B778177223537393%NwvwozExiwka%91057...	%B5469323811685837=2403868577	06/07/2024
Ccu-U-3057	258	LU931822574987545215	3484 621767 21237	6805	848	%B778177223537393%NwvwozExiwka%91057...	%B2727867073512632=740369024475	09/14/2024
Ccu-U-3064	257	PS1469555454925377627273133	3467 732741 26810	3865	498	%B76545337757197%XlxwhnPhwek%5163...	%B2536323414661722=8012392287	08/03/2024
Ccu-U-3071	256	NO892381476351	3464 789562 23352	6625	661	%B8981277622416587%HdwdwlMapqc%2809...	%B815082679583177=4078165320671	12/20/2024
Ccu-U-3078	255	ISO2517458646232705948733	4539 322 74 2377	9405	720	%B8805395627767929%YngcruOhnoh%6809...	%B784738532697301=510445189471	03/08/2024
Ccu-U-3085	254	BE63114722972437	5268 3346 1135 1687	7241	413	%B824398282668837%NaovghMajju%78068...	%B2484952349754061=4608998797	05/10/2024
Ccu-U-3092	253	RO651SOD116122125447487	3484 754223 46253	9417	594	%B204123689456452%DolminDrykw%61072...	%B1237574406214788=400821384277	12/19/2024
Ccu-U-3099	252	PT26105275356823705537218	448 55418 98863 789	5612	564	%B5875431233326388%SdyavpxPeeu%8034...	%B204044802488051978=650997468774	01/22/2024
Ccu-U-3106	251	AT68425163751136598	34957416395283	9733	209	%B14914973925988%HfgvhwNxaok%70019...	%B982179521022817=0303720777	01/27/2024
Ccu-U-3113	250	I2E6LCG177321752752	34183482277471	9016	287	%B935673133335126%KwpvhylAspspm%5512...	%B3438596027194536=530658655372	06/12/2024
Ccu-U-3120	249	PP202105275356823705537218	448 55418 98863 789	5612	564	%B5875431233326388%SdyavpxPeeu%8034...	%B204044802488051978=650997468774	01/22/2024
Ccu-U-3127	248	PP202105275356823705537218	448 55418 98863 789	5612	564	%B5875431233326388%SdyavpxPeeu%8034...	%B204044802488051978=650997468774	01/22/2024
Ccu-U-3134	247	PP202105275356823705537218	448 55418 98863 789	5612	564	%B5875431233326388%SdyavpxPeeu%8034...	%B204044802488051978=650997468774	01/22/2024
Ccu-U-3141	246	PP202105275356823705537218	448 55418 98863 789	5612	564	%B5875431233326388%SdyavpxPeeu%8034...	%B204044802488051978=650997468774	01/22/2024
Ccu-U-3148	245	PP202105275356823705537218	448 55418 98863 789	5612	564	%B5875431233326388%SdyavpxPeeu%8034...	%B204044802488051978=650997468774	01/22/2024
Ccu-U-3155	244	PP202105275356823705537218	448 55418 98863 789	5612	564	%B5875431233326388%SdyavpxPeeu%8034...	%B204044802488051978=650997468774	01/22/2024
Ccu-U-3162	243	PP202105275356823705537218	448 55418 98863 789	5612	564	%B5875431233326388%SdyavpxPeeu%8034...	%B204044802488051978=650997468774	01/22/2024
Ccu-U-3169	242	PP202105275356823705537218	448 55418 98863 789	5612	564	%B5875431233326388%SdyavpxPeeu%8034...	%B204044802488051978=650997468774	01/22/2024
Ccu-U-3176	241	PP202105275356823705537218	448 55418 98863 789	5612	564	%B5875431233326388%SdyavpxPeeu%8034...	%B204044802488051978=650997468774	01/22/2024
Ccu-U-3183	240	PP202105275356823705537218	448 55418 98863 789	5612	564	%B5875431233326388%SdyavpxPeeu%8034...	%B204044802488051978=650997468774	01/22/2024
Ccu-U-3190	239	PP202105275356823705537218	448 55418 98863 789	5612	564	%B5875431233326388%SdyavpxPeeu%8034...	%B204044802488051978=650997468774	01/22/2024
Ccu-U-3197	238	PP202105275356823705537218	448 55418 98863 789	5612	564	%B5875431233326388%SdyavpxPeeu%8034...	%B204044802488051978=650997468774	01/22/2024
Ccu-U-3204	237	PP202105275356823705537218	448 55418 98863 789	5612	564	%B5875431233326388%SdyavpxPeeu%8034...	%B204044802488051978=650997468774	01/22/2024
Ccu-U-3211	236	PP202105275356823705537218	448 55418 98863 789	5612	564	%B5875431233326388%SdyavpxPeeu%8034...	%B204044802488051978=650997468774	01/22/2024
Ccu-U-3218	235	PP202105275356823705537218	448 55418 98863 789	5612	564	%B5875431233326388%SdyavpxPeeu%8034...	%B204044802488051978=650997468774	01/22/2024
Ccu-U-3225	234	PP202105275356823705537218	448 55418 98863 789	5612	564	%B5875431233326388%SdyavpxPeeu%8034...	%B204044802488051978=650997468774	01/22/2024
Ccu-U-3232	233	PP202105275356823705537218	448 55418 98863 789	5612	564	%B5875431233326388%SdyavpxPeeu%8034...	%B204044802488051978=650997468774	01/22/2024
Ccu-U-3239	232	PP202105275356823705537218	448 55418 98863 789	5612	564	%B5875431233326388%SdyavpxPeeu%8034...	%B204044802488051978=650997468774	01/22/2024
Ccu-U-3246	231	PP202105275356823705537218	448 55418 98863 789	5612	564	%B5875431233326388%SdyavpxPeeu%8034...	%B204044802488051978=650997468774	01/22/2024
Ccu-U-3253	230	PP202105275356823705537218	448 55418 98863 789	5612	564	%B5875431233326388%SdyavpxPeeu%8034...	%B204044802488051978=650997468774	01/22/2024
Ccu-U-3260	229	PP202105275356823705537218	448 55418 98863 789	5612	564	%B5875431233326388%SdyavpxPeeu%8034...	%B204044802488051978=650997468774	01/22/2024
Ccu-U-3267	228	PP202105275356823705537218	448 55418 98863 789	5612	564	%B5875431233326388%SdyavpxPeeu%8034...	%B204044802488051978=650997468774	01/22/2024
Ccu-U-3274	227	PP202105275356823705537218	448 55418 98863 789	5612	564	%B5875431233326388%SdyavpxPeeu%8034...	%B204044802488051978=650997468774	01/22/2024
Ccu-U-3281	226	PP202105275356823705537218	448 55418 98863 789	5612	564	%B5875431233326388%SdyavpxPeeu%8034...	%B204044802488051978=650997468774	01/22/2024
Ccu-U-3288	225	PP202105275356823705537218	448 55418 98863 789	5612	564	%B5875431233326388%SdyavpxPeeu%8034...	%B204044802488051978=650997468774	01/22/2024
Ccu-U-3295	224	PP202105275356823705537218	448 55418 98863 789	5612	564	%B5875431233326388%SdyavpxPeeu%8034...	%B204044802488051978=650997468774	01/22/2024
Ccu-U-3302	223	PP202105275356823705537218	448 55418 98863 789	5612	564	%B5875431233326388%SdyavpxPeeu%8034...	%B204044802488051978=650997468774	01/22/2024
Ccu-U-3309	222	PP202105275356823705537218	448 55418 98863 789	5612	564	%B5875431233326388%SdyavpxPeeu%8034...	%B204044802488051978=650997468774	01/22/2024
Ccu-U-3316	221	PP202105275356823705537218	448 55418 98863 789	5612	564	%B5875431233326388%SdyavpxPeeu%8034...	%B204044802488051978=650997468774	01/22/2024
Ccu-U-3323	220	PP202105275356823705537218	448 55418 98863 789	5612	564	%B5875431233326388%SdyavpxPeeu%8034...	%B204044802488051978=650997468774	01/22/2024
Ccu-U-3330	219	PP202105275356823705537218	448 55418 98863 789	5612	564	%B5875431233326388%SdyavpxPeeu%8034...	%B204044802488051978=650997468774	01/22/2024
Ccu-U-3337	218	PP202105275356823705537218	448 55418 98863 789	5612	564	%B5875431233326388%SdyavpxPeeu%8034...	%B204044802488051978=650997468774	01/22/2024
Ccu-U-3344	217	PP202105275356823705537218	448 55418 98863 789	5612	564	%B5875431233326388%SdyavpxPeeu%8034...	%B204044802488051978=650997468774	01/22/2024
Ccu-U-3351	216	PP202105275356823705537218	448 55418 98863 789	5612	564	%B5875431233326388%SdyavpxPeeu%8034...	%B204044802488051978=650997468774	01/22/2024
Ccu-U-3358	215	PP202105275356823705537218	448 5					

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://cnm.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://crn.com/	
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 22 74 14	necl.tempus@icloud.co.uk	United States	https://instagram.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	nisl.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

Local Instance 3306 - Warning - not supported

Administration Schemas Query 1 Sprint 4 transactions

SCHEMAS Filter objects

modelat_sql_roser

- Tables
 - companies
 - credit_cards
 - transactions
 - users
- Views
- Stored Procedures
- Functions

Afegeix categoria Taula dinàmica Inserir Taula Gràfic Text Forma Multimèdia Comentari Compartir Format Organitzar

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

1 • SELECT * FROM modelat_sql_roser.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.	
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.	

users_usa 2

125% Veure Zoom Afegeix categoria Taula dinàmica Inserir Taula Gràfic Text Forma Multimèdia Comentari Compartir Format Organitzar

Full 1

users_usa										
	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@aol.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	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, 1988	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.	

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

Local Instance 3306 - Warning - not supported

Administration Schemas Query 1 Sprint 4 transactions

SCHEMAS Filter objects

modelat_sql_roser

- Tables
 - companies
 - credit_cards
 - transactions
 - users
- Views
- Stored Procedures
- Functions

Afegeix categoria Taula dinàmica Inserir Taula Gràfic Text Forma Multimèdia Comentari Compartir Format Organitzar

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

1 • SELECT * FROM modelat_sql_roser.transactions;

	id	card_id	business_id	timestamp	amount	declined	product_ids	...	lat	longitude
18B1AD88-F155-45B7-D2EA-4738A074D5D6	CcU-3981	b-2362	2021-11-26 20:26:07	268.48	0	7	65		36.2908	-128.821
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	
DAT7A5D76-448A-678E-4836-465C88963F4E	CcU-3981	b-2362	2022-02-19 17:58:33	82.43	0	63	63	45.5819	94.5767	
44D0DBB1-975E-86A4-75DA-BDAFED65F688	CcU-4093	b-2362	2021-07-20 08:47:44	133.39	0	29	62	34.5967	161.593	
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	
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	
06BA79-99EC-66FB-2A97-2572BD176A45	CcU-2987	b-2250	2022-01-06 21:25:27	92.61	0	47, 67, 31, 5	275	-81.2227	-129.05	
09DE92CE-6F27-2B87-1B35-9385B2B3B8E2	CcU-3071	b-2298	2021-05-11 20:40:05	303.05	1	67, 7	275	71.1706	10.5757	
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	
10881D1D-5B23-A763-55EF-C568E49A05DD	CcU-2938	b-2222	2021-07-07 17:43:16	293.57	0	59	275	83.7839	-178.86	
1788C81-E667-9BA9-377A-4C78E72160	CcU-3038	b-2278	2022-01-16 08:19:44	486.83	0	7, 2, 79	275	55.9135	110.555	
2B92BE1C-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	
2C7D9B65-2629-CAB1-5010-77BD1A74DA6	CcU-3050	b-2286	2021-07-09 22:54:31	258.18	0	53	275	-15.6688	-70.1488	
2E9A6879-F2B1-A5B2-BDC8-EDEAFD054661	CcU-3061	b-2294	2021-09-20 05:48:42	108.20	1	59, 71	275	-76.0786	-8.29851	
2F3B6A86-147D-EB0B-FEBD-9A4E2EFA0DBD5	CcU-2966	b-2238	2021-10-18 06:12:03	33.81	0	47, 37, 11, 1	275	-17.7552	-147.16	
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	
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	
43434A9E-CEB0-3D68-A4D4-FEB7718A1ACE	CcU-3092	b-2310	2021-05-03 22:37:23	458.74	0	67	275	-20.4859	150.87	
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	
482166E1-E11C-BBC3-41DB-B8704B8687A3	CcU-3028	b-2274	2022-01-18 16:12:47	146.66	0	41, 83	275	-72.4206	-168.18	
4B3F0B5-1547-801-E5B0-44EDB2F62210	CcU-3043	b-2282	2021-12-04 23:00:20	63.12	0	83	275	48.9973	-50.5498	
52B1830C-D954-EB3D-4A72-7301C8B80F4	CcU-2973	b-2242	2021-07-31 23:03:21	346.61	1	53, 59, 5, 41	275	-55.8151	-139.586	
5B0EEF86-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	
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	
66B35B95-C39C-6B4B-7BCD-C45E2C7CD4E	CcU-3022	b-2270	2022-01-31 11:33:27	257.04	1	41, 47, 13...	275	-82.7326	149.647	
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	

transactions 12

Action Output

Time	Action
36 13:51:17	SELECT * FROM modelat_sql_roser.transactions;

Response Duration / Fetch Time

587 row(s) returned 0.0011 sec / 0.00075...

Query Completed

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	748-8694 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@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

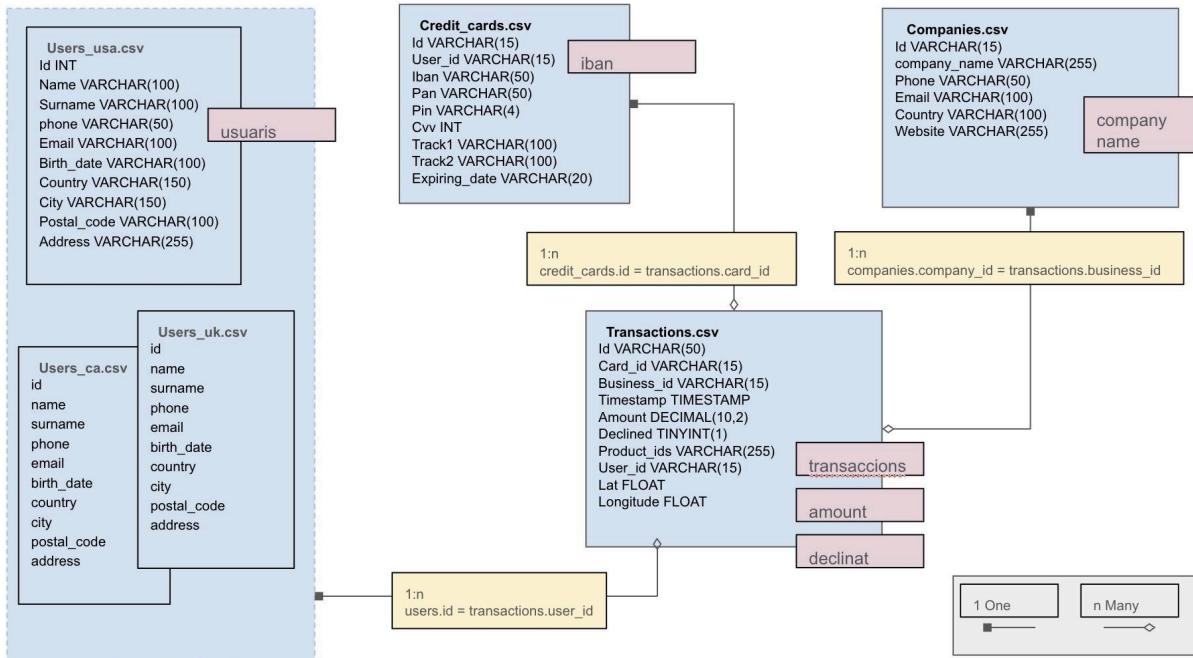
users 3

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:

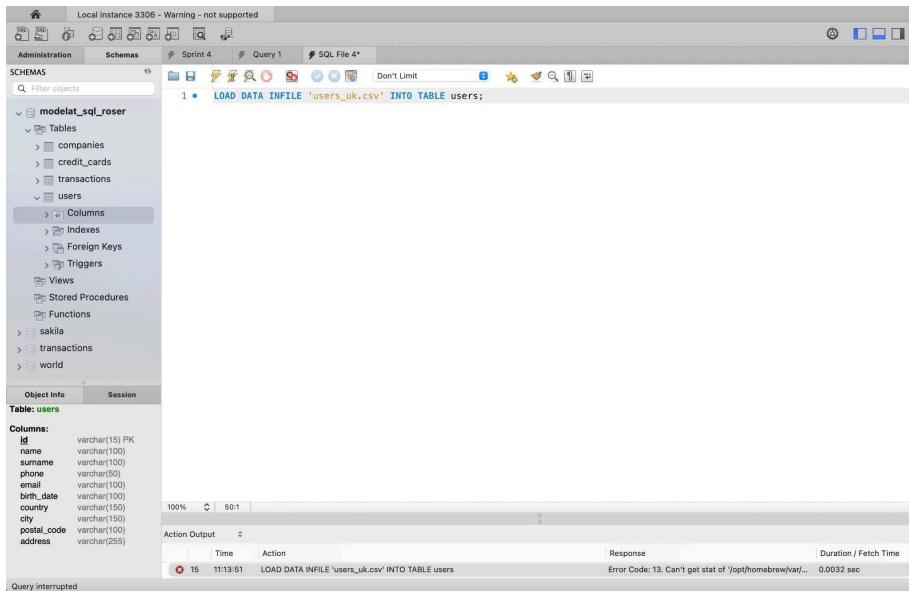
```
1 [mysqld]
2 secure_file_priv=""
3 local_infile=1
4
5 [client]
6 loose-local-infile=1
7
```

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	

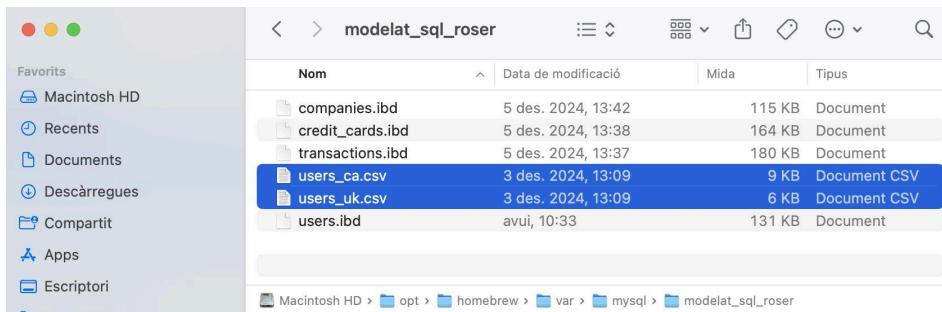
Details from the bottom window's status bar:
Action Output: 0
Time: 10:22:51
Action: SHOW VARIABLES LIKE 'secure_file_priv'
Response: 1 row(s) returned
Duration / Fetch Time: 0.0039 sec / 0.00001...

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

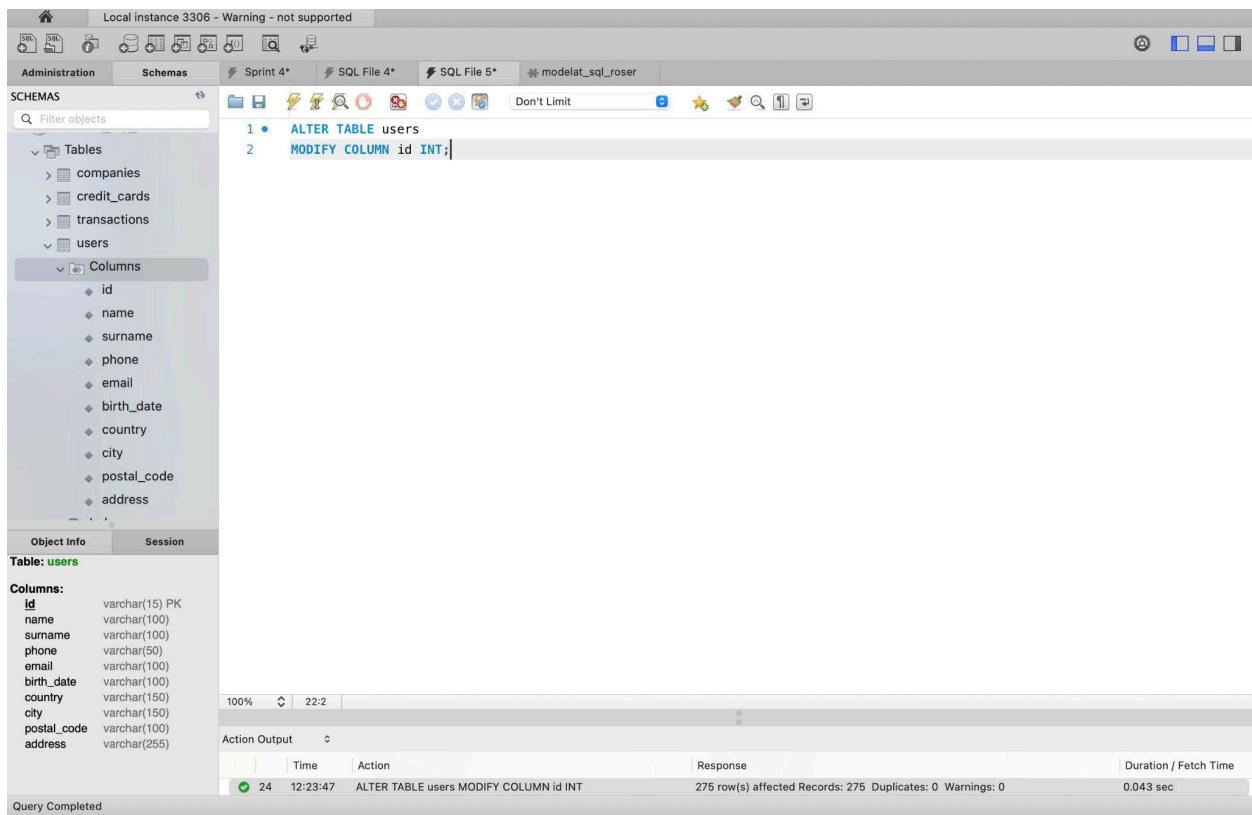
Query Completed

```

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. In the top navigation bar, the schema is set to 'modelat_sql_roser'. The left sidebar shows the 'Tables' section with 'users' selected. Under 'Columns', the 'id' column is highlighted. The main pane displays the SQL query:

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

The 'Object Info' tab is active, 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 pane displays the schema browser with the 'users' table selected. The main pane shows the result grid for the query 'SELECT * FROM users;'. The right pane has several tabs: Result Grid, Form Editor, Field Types, Query Stats, and Execution Plan.

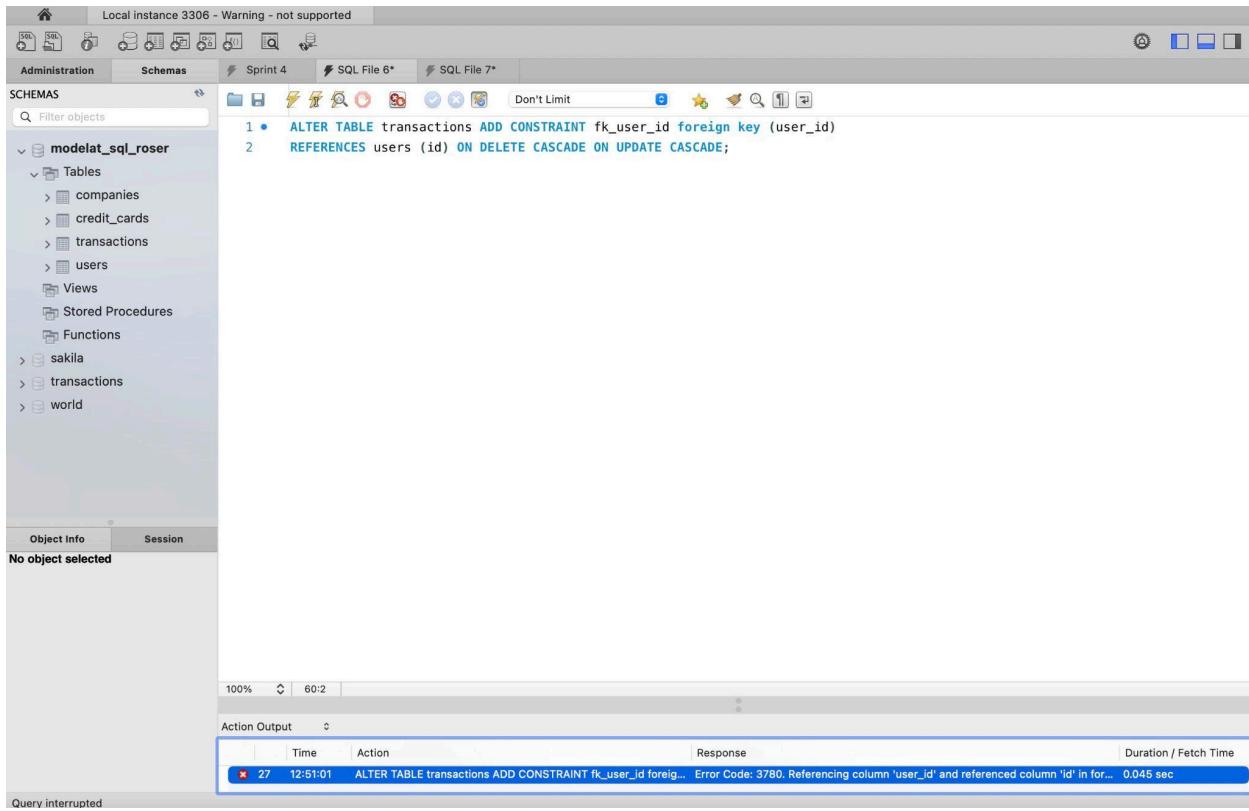
	id	name	surname	phone	email	birth_date	country	city	postal_code	address
1	Zeus	Gamble	1-282-581-0551	interdum.enim@protonmail.edu	Nov 17, 1985	United States	Lowell	73544	348-7818 Sagittis St.	
2	Garrett	Mcconnell	(718) 257-2412	integer.vitae.nibh@protonmail.org	Aug 23, 1992	United States	Des Moines	59464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

Ara afegim les relacions

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

Relació amb usuaris

Alter table transaction fk user id



Error

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

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

Local instance 3306 - Warning - not supported

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

1 • ALTER TABLE transactions
2 MODIFY COLUMN user_id INT;

Object Info Session

Table: transactions

Columns:

Name	Type	PK
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 right indicates a duration of 0.037 sec.

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 'Tables' node under 'modelat_sql_roser' is selected, and the 'columns' section is expanded, showing columns like 'id', 'company_name', 'phone', 'email', 'country', and 'website'. The 'Actions' bar and the execution results in the main window are identical to the first screenshot.

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 / 0.0000...

Query Completed

I filtrem per usuaris amb aquest numero de transaccions

Local instance 3306 - Warning - not supported

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

Filter objects Tables > companies > credit_cards > transactions Columns id card_id business_id timestamp amount declined product_ids user_id lat longitude Indexes Foreign Keys Object Info Session

Table: companies

Columns:

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

```

id name surname phone email birth_date country city postal_code address

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

users 1

Action Output

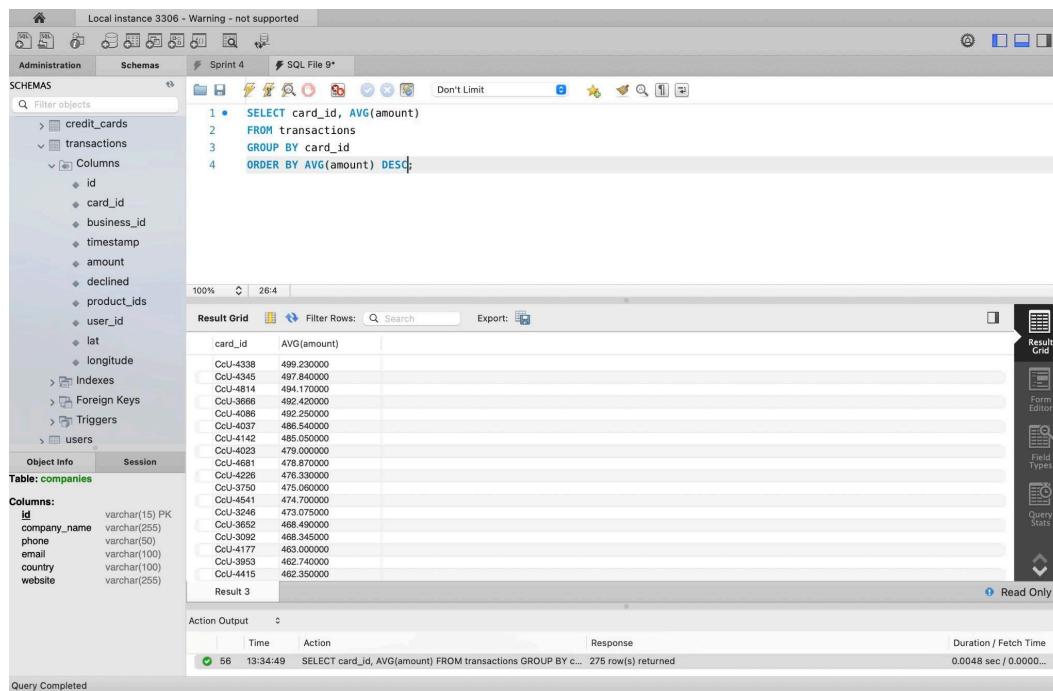
Time	Action	Response	Duration / Fetch Time
53	13:28:47	SELECT * FROM users WHERE id IN (SELECT user_id FROM tra... 4 row(s) returned	0.0072 sec / 0.00003...

Query Completed

- Exercici 2: mitjana per iban

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

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



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

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

The results grid displays the following data:

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

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

Busquem el id de la companyia Donec b-2242

Local instance 3306 - Warning - not supported

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

Filter objects Don't Limit

```

1 •  SELECT *
2   FROM companies;
  
```

100% 16:2

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

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

companys 1 Apply Revert

Action Output Time Action Response Duration / Fetch Time

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

Query Completed

I filtrem els resultats

Local instance 3306 - Warning - not supported

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

SCHEMAS Filter objects

- > Triggers
- > credit_cards
- > transactions
 - Columns
 - id
 - card_id
 - business_id
 - timestamp
 - amount
 - declined
 - product_ids
 - user_id
 - lat
 - longitude
- > Indexes
- > Foreign Keys

Object Info Session

Table: companies

Columns:

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

```

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

```

Result Grid Filter Rows: Search Export:

card_id	Avg(amount)
CcU-2973	203.715000

Result 4

Action Output

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

Query Completed

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

Local instance 3306 - Warning - not supported

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

SCHEMAS Filter objects

- > Triggers
- > credit_cards
- > transactions
 - Columns
 - id
 - card_id
 - business_id
 - timestamp
 - amount
 - declined
 - product_ids
 - user_id
 - lat
 - longitude
- > Indexes
- > Foreign Keys

Object Info Session

Table: companies

Columns:

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

```

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

```

Result Grid Filter Rows: Search Export:

card_id	Avg(amount)
CcU-2973	203.715000

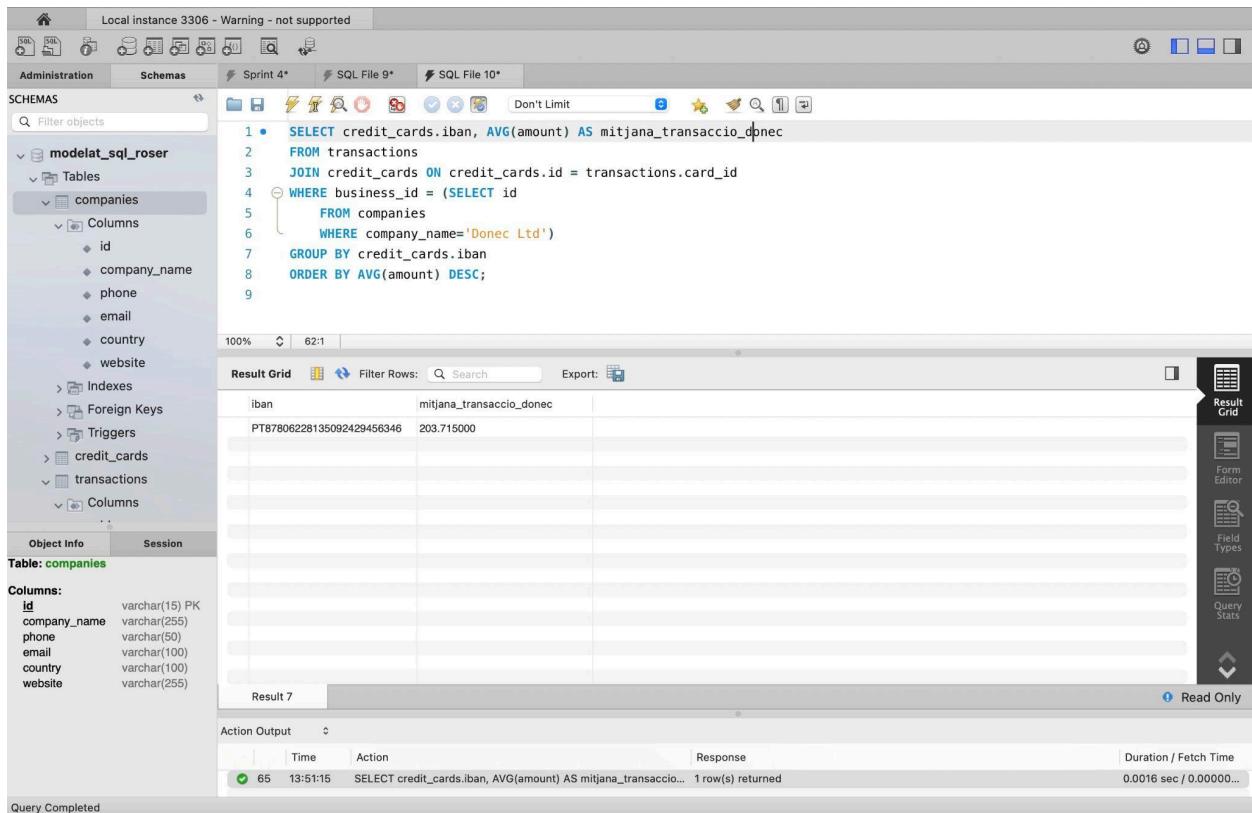
Result 5

Action Output

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

Query Completed

Li afegim els ibans



The screenshot shows the MySQL Workbench interface. On the left, the schema browser displays the 'modelat_sql_roser' database with tables 'companies', 'credit_cards', and 'transactions'. The 'companies' table is selected, showing columns: id (PK), company_name, phone, email, country, and website. A query editor window contains the following SQL code:

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

The result grid shows one row of data:

iban	mitjana_transaccio_donec
PT87806228135092429456346	203.715000

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

Nivell 2

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

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

Comencem preguntant quantes targetes hi ha que hagin fet transaccions

Screenshot of MySQL Workbench showing a query execution.

The interface includes:

- Administration and Schemas tabs.
- SQL Editor tab: Sprint 4*, SQL File 9*, SQL File 10*.
- Query: `SELECT distinct(card_id)`
- Result Grid: Shows 275 rows of card_ids ranging from CU-2938 to CU-3113.
- Object Info and Session tabs.
- Column info for declined: tinyint(1).
- Action Output: 73 queries completed in 0.0023 sec / 0.00003...
- Right sidebar: Result Grid, Form Editor, Field Types, Query Stats, Execution Plan.

I quantes transaccions ha tingut cada targeta

Local instance 3306 - Warning - not supported

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

SCHEMAS Filter objects Filter Rows: Search Export:

```

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

```

Result Grid Filter Rows: Search Export:

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

Result 16 Read Only

Action Output Time Action Response Duration / Fetch Time

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

Query Completed

I quantes vegades en total s'ha declinat cada targeta

Local instance 3306 - Warning - not supported

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

SCHEMAS Filter objects

- > expiring_cards
 - > Indexes
 - > Foreign Keys
 - > Triggers
- > transactions
 - > Columns
 - id
 - card_id
 - business_id
 - timestamp
 - amount
 - declined**
 - product_ids
 - user_id
 - lat
 - longitude
 - > Indexes

Object Info Session

Column: **declined**

Definition: declined tinyint(1)

```

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

```

Result Grid Filter Rows: Search Export:

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

Result 20 Read Only

Action Output Time Action Response Duration / Fetch Time

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

Query Completed

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

Local instance 3306 - Warning - not supported

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

SCHEMAS Filter objects

- > Indexes
- > Foreign Keys
- > Triggers
- transactions
- Columns
 - id
 - card_id
 - business_id
 - timestamp
 - amount
 - declined
 - product_ids
 - user_id
 - lat
 - longitude
- Indexes

Object Info Session

Column: declined

Definition: declined tinyint(1)

```

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

```

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

id	card_id	business_id	timestamp	amount	declined	product_ids	user_id	lat	longitude
49CD105D-E569-3733-C8C8-3908ED7E1838	CcU-3393	b-2326	2021-12-24 23:43:59	411.81	0	43	108	-47.8783	168.275
51A4866C-484C-5529-8419-B7BBADE4294D	CcU-3393	b-2346	2021-03-27 10:25:42	447.06	0	5, 23, 37	104	74.8691	-147.034
61EC87A4-CF88-B392-F93B-75EF2FC93537	CcU-3393	b-2326	2021-06-01 20:23:57	346.10	0	89, 53	110	88.4626	85.6351
71CB87BE-F93E-4877-D1F6D-1BD3B312ED29	CcU-3393	b-2326	2021-10-21 20:41:56	441.63	0	5, 59	110	-27.1212	-105.573
7D00819EC-7363-6767-36C0-97CE77D5E65	CcU-3393	b-2326	2021-05-09 15:36:26	158.89	0	97, 79, 67	107	-26.2616	25.8733
84BBECA6-A786-91C0-C973-88730565BFa3	CcU-3393	b-2326	2021-12-02 07:12:35	179.18	0	11, 71, 17	110	-7.43343	-77.4374
8C5C40B3-3988-EE44-128E-18147A9E62D2	CcU-3393	b-2346	2021-12-22 05:18:10	123.09	0	37, 11, 2, 3	106	-32.7338	-136.163
925CA912-BC56-8905-9279-FC88DE2185f6	CcU-3393	b-2326	2021-05-09 17:01:17	341.44	0	7, 19	112	49.4942	-62.5086
9833DD1C-702C-A8A7-FB46-ABC4A70DF7B8	CcU-3393	b-2326	2022-01-06 22:25:58	472.18	0	79, 97, 17	111	-84.9792	128.766
9A993DCE-716B-D784-9192-285C2A490Ae8	CcU-3393	b-2346	2021-08-28 23:40:17	193.64	0	61, 11, 23	105	66.7095	-105.291
9EE639A3-2836-87C2-207F-AF3941834DB2	CcU-3393	b-2346	2021-08-09 08:17:46	368.83	0	19, 7	100	-77.4477	-1.16971
A02DC5D8-FC79-EA3-0308-32488538f6BD	CcU-3393	b-2482	2022-02-19 17:24:18	153.89	1	47, 61	272	9.96665	-108.709
A234A47C-7594-5485-E592-79D6671E1483	CcU-3393	b-2326	2021-12-13 12:20:16	109.78	0	7, 3, 2	113	22.2165	33.827
A4534186-6CA4-E910-26E1-8986861688E9D	CcU-3393	b-2326	2021-06-06 11:57:32	58.14	0	37, 29	114	-13.0857	-151.407
B1ED4136-D41A-6BF3-4C61-7A575f624670	CcU-3393	b-2482	2021-06-09 16:23:11	22.19	0	23, 71, 29, 5	272	-71.5791	-40.9087
B220187A-2A9C-0384-EEA1-DD917F11C94F	CcU-3393	b-2326	2021-09-07 04:13:28	466.48	0	53	115	0.920227	25.7309
BAA38D001-C4D1-6F43-DOF8-5EC8C8B8384B	CcU-3393	b-2326	2022-02-05 15:36:28	167.19	0	53, 97, 73, 2	109	-34.5539	-89.1261
CEED5D49-B28F-49A6-E567-9E7F74864190	CcU-3393	b-2346	2021-09-09 02:41:00	107.30	0	19, 71, 41	103	-75.2029	73.2142
D95F1C84-2844-6BD2-3958-E4EBEFc36A75	CcU-3393	b-2326	2021-08-14 17:42:42	266.37	0	47, 89	110	-86.2736	-118.737
DD9860B0-D1BC-F993-4DE8-Sa247ACD73	CcU-3393	b-2326	2021-09-24 14:08:59	176.20	0	2, 23	110	65.0364	-26.2682
F843DC08-CCB5-2444-1B4E-5966289fBA8B	CcU-3393	b-2346	2021-04-27 08:12:28	18.08	0	7, 53, 37	102	17.9004	65.5477
F85A7D75-2778-9D75-D776-3F41A828DE88	CcU-3393	b-2346	2021-10-10 01:46:36	135.93	0	23, 97, 31, 3	101	24.1698	88.2782
HULL	HULL	HULL	HULL	HULL	HULL	HULL	HULL	HULL	HULL

transactions 4

Action Output

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

Query Completed

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

Local instance 3306 - Warning - not supported

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

SCHEMAS Filter objects Indexes Foreign Keys Triggers transactions Columns id, card_id, business_id, timestamp, amount, declined, product_ids, user_id, lat, longitude Indexes Object Info Session

```

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

```

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

id	card_id	business_id	timestamp	amount	declined	product_ids	user_id	lat	longitude
69D90229-AD26-43C3-5AAF-BD332D3B3E62	CcU-2959	b-2362	2022-03-16 14:01:36	329.03	0	67, 29	92	4.07537	129.723
F1D89D51-B-AE8D-77DC-E450-B8083FB03187	CcU-3960	b-2494	2022-03-09 02:35:05	200.72	0	3, 2, 73, 1	250	8.01217	-64.6715
CA515AD3-5A34-6966-073E-1D231CE56678	CcU-4709	b-2278	2022-03-15 16:24:37	25.78	0	2	206	80.0508	-167.602
D5C5ABC8-1-D3-E8C7-29A9-C136DEAD8E	CcU-3799	b-2618	2022-03-15 02:15:32	101.32	0	73, 31	261	-6.94376	-56.6999
2EBE1D7D-90D7-944D-E758-2CD8949497A5	CcU-4191	b-2346	2022-03-14 13:51:53	305.47	0	89, 53, 59	96	4.10875	-60.6688
6ADF86D5-D-D032-B8C8-D157-C836F5BEF67	CcU-4849	b-2302	2022-03-14 09:23:10	20.33	0	1	190	26.4978	-54.1349
5BA91852-2D60-169A-805B-E1FA120E9683	CcU-4471	b-2302	2022-03-13 13:37:34	164.32	0	3	213	7.30204	72.5522
F22E9857-414B-BEEC-E9A-D-59A7-A9A62990	CcU-3232	b-2390	2022-03-13 00:27:34	78.29	0	83, 7, 17, 89	272	-24.3195	-11.4135
A085A78A-8829-5746-93A0-887A792EBC18	CcU-2938	b-2362	2022-03-12 09:23:10	263.59	0	2, 3, 29	92	25.5502	-142.624
D1389977-A7AD-1856-10EA-E2D04741D40C	CcU-2994	b-2326	2022-03-10 03:43:25	226.16	0	1, 5	127	-8.7274	37.96
F1A598A2-86C5-50A9-F1CE-FB1D69866C39	CcU-2938	b-2362	2022-03-09 20:53:59	229.65	0	79, 73	84	-65.124	31.0337
556bA583-1E05-6B1F-BE39-36f447868EF	CcU-3463	b-2522	2022-03-09 04:15:58	470.03	1	17, 7	267	-34.5017	-6.4337
158A3ACB-541C-DBCC-65BD-6373C6c7BF1C	CcU-4849	b-2302	2022-03-08 05:02:19	240.29	0	13, 41, 89...	183	42.5424	-170.347
2139A647-D965-AA81-3915-55DA6A16CD3F	CcU-3127	b-2330	2022-03-07 10:53:46	119.68	0	79, 71	273	9.50453	128.879
ACCD2011A-A2B1-C365-41E1-2AB00C68147A	CcU-2980	b-2246	2022-03-05 20:41:20	60.07	1	2, 83	275	-54.4792	-82.7974
F28E106B-5418-4667-9514-2E2A8232EC6C	CcU-3358	b-2462	2022-03-05 06:54:37	114.89	1	79, 47, 97	272	-55.9496	-11.6066
0B880B7-9D66-1707-C-E48-9-DC7E7191485	CcU-3141	b-2338	2022-03-04 14:54:35	288.81	1	19, 41, 29, 3	272	23.3264	-13.6037
95E9F678-3731-2845-EB21-1ABD2D016BCB	CcU-2959	b-2346	2022-03-04 02:48:32	192.13	0	31	92	16.5773	-123.777
3E495E51-E1C5-26F1-0E3E-2D13EA2593A	CcU-4282	b-2302	2022-03-03 14:29:15	417.70	0	31, 97, 17, 1	227	-50.5725	-172.508
A1ABD82E-4E96-3D0D-2E4C-B19425290943	CcU-3344	b-2454	2022-03-02 19:42:05	443.11	1	53, 1, 67, 73	272	24.7104	163.19
D33B21EB-A61E-BD8C-SDE7-1DAA4C210AE6	CcU-2994	b-2254	2022-03-02 13:29:50	20.35	0	17, 13, 73	275	5.27302	5.06131
34AA1D64-2989-DE1C-8705-C66C8DD199D	CcU-4219	b-2302	2022-03-02 05:30:41	275.45	0	13, 97, 37	166	-17.0772	-169.006
3B37BE91-420F-4361-23A8-3C5A42B998F7	CcU-4849	b-2278	2022-03-02 02:21:42	154.94	0	37	191	7.17413	-0.998084
77D7C634-E5D9-34AE-8A06-8AE5740A037	CcU-3484	b-2534	2022-03-01 19:12:42	155.57	0	59, 07, 2, 43	267	22.465	-06.0771

Action Output Time Action Response Duration / Fetch Time

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

Query Completed

Experimentem una mica amb ROW_NUMBER

Local Instance 3306 - Warning - not supported

Administration Schemas

SCHEMAS Filter objects

modelat_sql_roser

Tables

- Companies
- Credit_cards
- Transactions

Columns

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

Indexes

Foreign Keys

Object Info Session

No object selected

```

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

```

Result Grid Filter Rows: Search Export:

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

Result 4 Read Only

Query Completed

I am el partition by

Local instance 3306 - Warning - not supported

Administration Schemas

SCHEMAS Filter objects

modelat_sql_roser

- Tables
 - Companies
 - Credit_cards
 - Transactions
- Columns
- Indexes
- Foreign Keys

Object Info Session

No object selected

```

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

Result Grid Filter Rows: Search Export:

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

Result 5 Read Only

Query Completed

Busquem les targetes que tenen més de 2 transaccions

Local instance 3306 (modelat_sql_roser) - Warning - not supported

Administration Schemas

SCHEMAS Filter objects

modelat_sql_roser

- Tables
 - Companies
 - Credit_cards
 - Transactions
- Columns
- Indexes
- Foreign Keys

Object Info Session

No object selected

```

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

Result Grid Filter Rows: Search Export:

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

Result 3 Read Only

Action Output

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

Query Completed

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

The screenshot shows the MySQL Workbench interface with a running query. The top navigation bar includes tabs for Administration, Schemas, and the current database (modelat_sql_roser). The left sidebar displays the schema structure with tables like companies, credit_cards, transactions, and columns such as id, card_id, business_id, timestamp, amount, declined, product_ids, user_id, lat, and longitude. A tree view also lists indexes and foreign keys.

The main area shows a query editor with the following SQL code:

```
1
2
3 -- details transaccions de tgts que tenen més de 2 transaccions
4 • SELECT *
  FROM transactions
  WHERE card_id in (Select card_id
    FROM transactions
    GROUP BY card_id
    HAVING COUNT(id) > 2)
  ORDER BY timestamp DESC;
```

The results grid shows the following data:

id	card_id	business_id	timestamp	amount	declined	product_ids	user_id	lat	longitude
69D90229-AD26-43C3-5A8F-AD332D3B3E62	CcU-2959	b-2362	2022-03-16 14:01:36	329.03	0	67, 29	92	4.07537	129.723
2EB9012D-9D97-9E4D-E758-2CD994497A5	CcU-4191	b-2346	2022-03-14 13:51:53	305.47	0	89, 63, 59	96	4.10875	-60.6688
6ADF86D5-D03C-BCE6-D157-9C836F5BEF67	CcU-4849	b-2302	2022-03-10 23:21:10	20.33	0	1	190	26.4978	-54.1349
A0B5A78A-8929-087A-7792-BC18	CcU-2938	b-2362	2022-03-19 20:23:10	263.59	0	2, 3, 29	92	25.5502	-142.622
D1389777-AD7-1856-1DE4-E2E94741D40C	CcU-2994	b-2326	2022-03-10 03:43:25	226.10	0	1, 5	127	-8.7274	37.98
F1A59B2A-8661-0845-C1E8-FB1D69866C39	CcU-2938	b-2336	2022-03-09 20:53:59	229.65	0	79, 73	84	-65.124	31.0337
16B8A880-9A80-485C-B680-6973CC0B91C	CcU-4849	b-2302	2022-03-09 05:02:19	240.29	0	13, 41, 89, 71	183	42.5424	-170.347
9887F7D9-3731-2B45-984C-80938893	CcU-2938	b-2362	2022-03-09 05:02:13	20.33	0	31	95	16.5773	-50.0531
3D82A15B-4616-8040-DE57-1D4A-A210A5	CcU-2994	b-2354	2022-03-12 19:28:50	20.33	0	17, 13, 73	92	5.57558	-10.9908
34AA1D61-2989-DE10-8705-C96C0D9B18D0	CcU-4219	b-2302	2022-03-09 05:00:41	785.45	0	18, 97, 37	166	-17.0772	-169.006
3B2379E9-1F02-4361-238A-3C5A4B998F7	CcU-4849	b-2278	2022-03-02 02:21:42	154.94	0	37	191	7.17413	-0.998084
8D2CA58B-CNET-3398-CA4D-360323286748	CcU-2994	b-2346	2022-03-23 00:10:50	188.94	0	53, 29, 59	92	-36.5588	48.9359
A6240105-79C9-DD54-2841-0164B6CE567	CcU-4849	b-2302	2022-02-24 17:04:53	420.59	0	47, 67, 53	179	-29.9044	-179.334
55166D02-D74C-6A63-8C54-8678476E4984	CcU-2938	b-2362	2022-02-24 01:04:42	186.12	0	97, 89, 83	89	-31.517	-168.575
BEEC8926-A272-9A3A-D0A8-B8FBDC0FA875	CcU-2994	b-2326	2022-02-23 19:53:59	136.28	0	67, 37	123	65.9665	14.162
DATA75D7-448A-678E-4836-465CB893F4E	CcU-4093	b-2362	2022-01-19 17:58:33	82.43	0	83	63	45.5819	94.5767
A022DC5D8-77C8-EA3-C098-32488538F6BD	CcU-3393	b-2482	2022-02-19 17:24:18	153.89	1	47, 61	272	9.96665	-108.709
C8832C8-7A60-CE22-AFD3-6A8B641C8D7C	CcU-4849	b-2302	2022-02-18 20:33:36	23.35	0	19	181	7.5702	-164.906

The bottom section shows the Action Output table with the following data:

Action	Output	Time	Action	Response	Duration / Fetch Time
25	12:21:00	SELECT * FROM transactions WHERE card_id in (Select card_id FROM transactions GR...	238 row(s) returned		0.0051 sec / 0.00027...

At the bottom right, there is a "Query Completed" message.

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

The screenshot shows the MySQL Workbench application window. The title bar indicates "Local instance 3306 (modelat_sql_rosser) - Warning - not supported". The main menu bar includes Administration, Schemas, and various SQL and file options. On the left, the Schemas tree shows a single database "modelat_sql_rosser" containing a "Tables" node which has "companies", "credit_cards", "transactions", and "Columns" (with "id", "card_id", "business_id", "timestamp", "amount", "declined", "product_ids", "user_id", "lat", and "longitude") listed under it. Below "Tables" are "Indexes" and "Foreign Keys". The "Object Info" tab is selected, showing "No object selected". The "Session" tab is also visible. The central area contains a code editor with the following SQL query:

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

The "Result Grid" tab is active, displaying the results of the query. The results show multiple rows of data, each with a card_id and timestamp. The first few rows are:

card_id	timestamp	ROW_NUMBER () over (partition by card_id o...)
CctU-2938	2021-09-18 00:31:49	17
CctU-2938	2021-09-24 08:33:44	18
CctU-2938	2021-10-01 08:33:44	19
CctU-2938	2021-10-17 03:52:48	20
CctU-2938	2021-10-24 01:29:53	21
CctU-2938	2022-02-24 11:01:42	22
CctU-2938	2022-03-09 20:53:59	23
CctU-2938	2022-03-12 09:23:10	24
CctU-2959	2021-04-04 04:51:04	1
CctU-2959	2021-04-04 11:53:52	2
CctU-2959	2021-04-14 16:55:53	3
CctU-2959	2021-04-15 13:37:18	4
CctU-2959	2021-04-16 06:35:20	5
CctU-2959	2021-04-17 05:30:17	6
CctU-2959	2021-04-21 23:05:47	7
CctU-2959	2021-04-22 22:03:25	8
CctU-2959	2021-04-29 07:06:10	9
CctU-2959	2021-05-23 02:46:05	10

The bottom status bar shows the query completed with a duration of 0.0051 sec / 0.00004... ms.

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

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

```

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

```

Result Grid:

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

Action Output:

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

Query Completed

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

Local instance 3306 (modelat_sql_roser) - Warning - not supported

Administration Schemas

SCHEMAS Filter objects

modelat_sql_roser

- Tables
 - companies
 - credit_cards
 - transactions
 - Columns
 - id
 - card_id
 - business_id
 - timestamp
 - amount
 - declined
 - product_ids
 - user_id
 - lat
 - longitude
- Indexes
- Foreign Keys

Object Info Session

No object selected

```

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

```

Result Grid Filter Rows: Search Export:

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

Result 22

Action Output

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

Query Completed

Ara afegirem la columna d'estat amb el case

Local instance 3306 (modelat_sql_roser) - Warning - not supported

Administration Schemas

SCHEMAS Filter objects

modelat_sql_roser

- Tables
 - companies
 - credit_cards
 - transactions
 - Columns
 - id
 - card_id
 - business_id
 - timestamp
 - amount
 - declined
 - product_ids
 - user_id
 - lat
 - longitude
- Indexes
- Foreign Keys

Object Info Session

No object selected

```

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

```

Result Grid Filter Rows: Search Export:

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

Result 6

Action Output

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

Query Completed

Li fiquem la columna d'estat

The screenshot shows the Oracle SQL Developer interface. The SQL Worksheet contains a complex SQL query that generates a status column based on the value of estat_en_numero. The Result Grid displays the output of this query, showing card_ids, estat_en_numero values, and their corresponding Status ('Activa' or 'Inactiva'). The Action Output pane shows the execution details, including the duration of 0.0001 sec.

```
1
2
3 # ordre_transaccions = numeració de últimes transaccions per targeta, on 1 és la última transacció, 2 penúltima, etc
4 # taula_ordre_transaccions = taula amb les transaccions ordenades de més recent a més antiga
5
6 # estat_en_numero = estat de la targeta on el 3 vol dir que la targeta està inactiva. Un 2, 1 o 0 que està activa.
7 # taula_estat_en_numero = taula que mostra l'estat de les targetes a través del número
8
9 •   SELECT card_id, estat_en_numero,
10    CASE
11      When estat_en_numero = 3 Then 'Inactiva'
12      Else 'Activa'
13    end AS Status
14  FROM (SELECT card_id, SUM(declined) AS estat_en_numero
15           FROM (SELECT card_id, timestamp, declined, ROW_NUMBER () over (partition by card_id order by timestamp) AS ordre_transaccions
16                 FROM transactions) AS taula_ordre_transaccions
17      WHERE ordre_transaccions <=3
18      GROUP BY card_id
19      ORDER BY card_id ASC) AS taula_estat_en_numero
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Local instance 3306 (modelat_sql_roser) - Warning - not supported

Administration Schemas

SCHEMAS

modelat_sql_roser

Tables

- companies
- credit_cards
- transactions

Columns

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

Indexes

Foreign Keys

Object Info Session

No object selected

```

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

```

Result Grid

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

Action Output

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

Query Completed

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

The screenshot shows the MySQL Workbench interface. On the left, the 'Schemas' tree view displays the 'modelat_sql_roser' schema, which contains tables like 'companies', 'credit_cards', 'transactions', and 'users', as well as views like 'estat_targetes'. The 'Views' node is expanded, and 'estat_targetes' is selected. The main pane shows the SQL code for creating the view:

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

The 'Object Info' tab at the bottom shows the view definition. The 'Session' tab shows the execution details:

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

Query Completed

Exercici 1: targetes actives

Quantes targetes estan actives?

Totes les targetes estan actives

Nivell 3

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

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