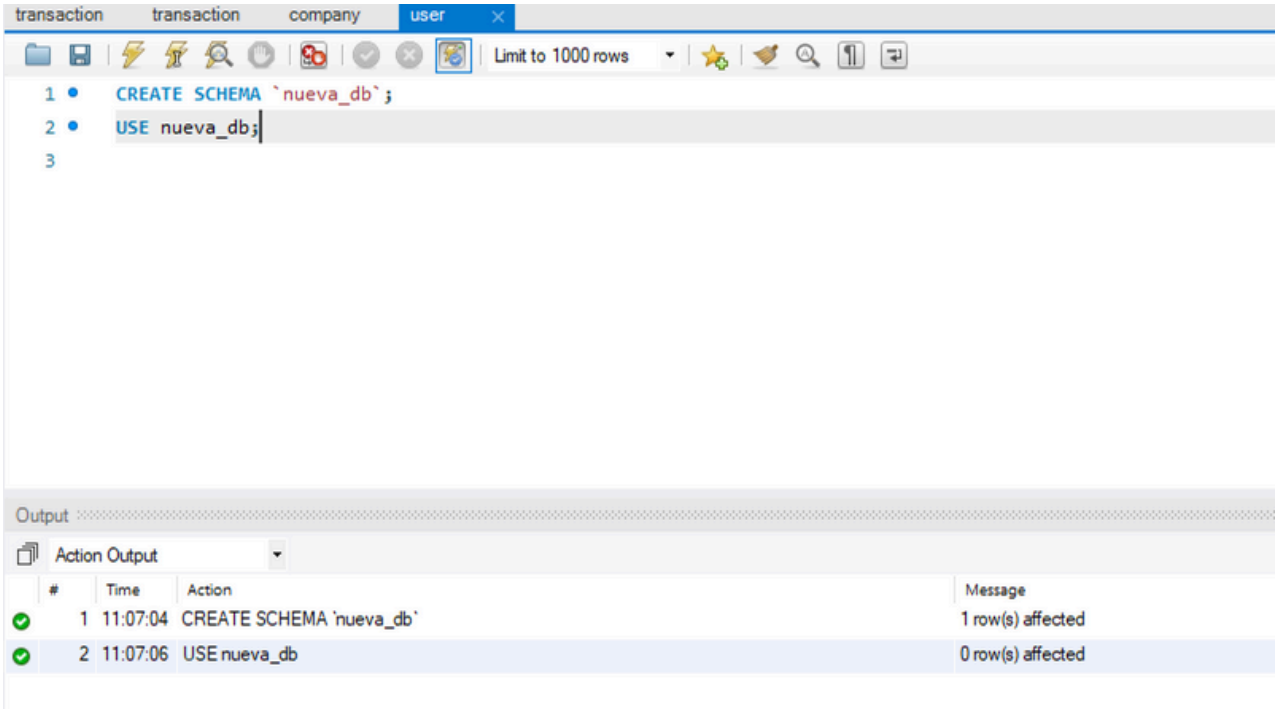
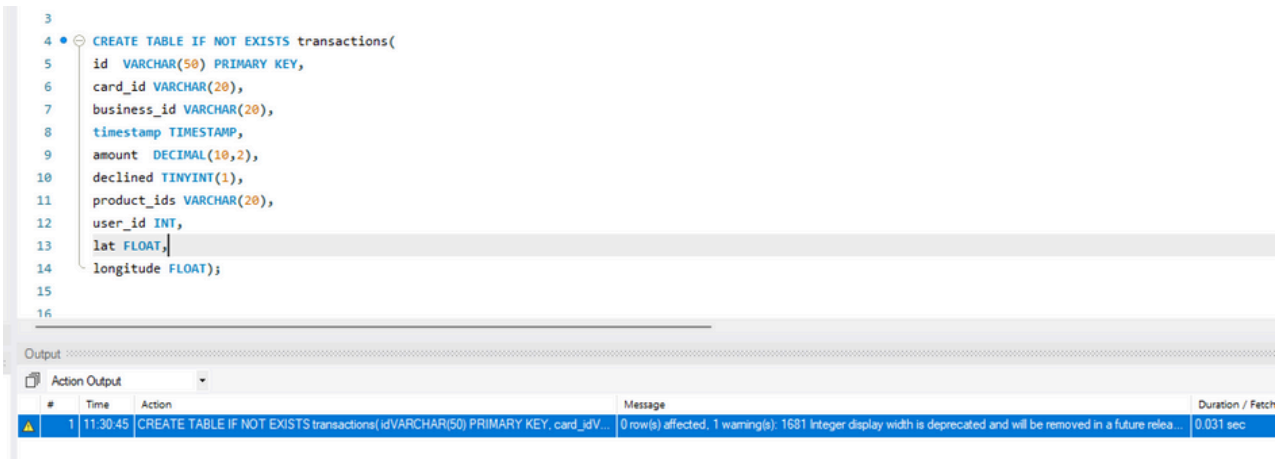
Sprint 4 - Nivel 1

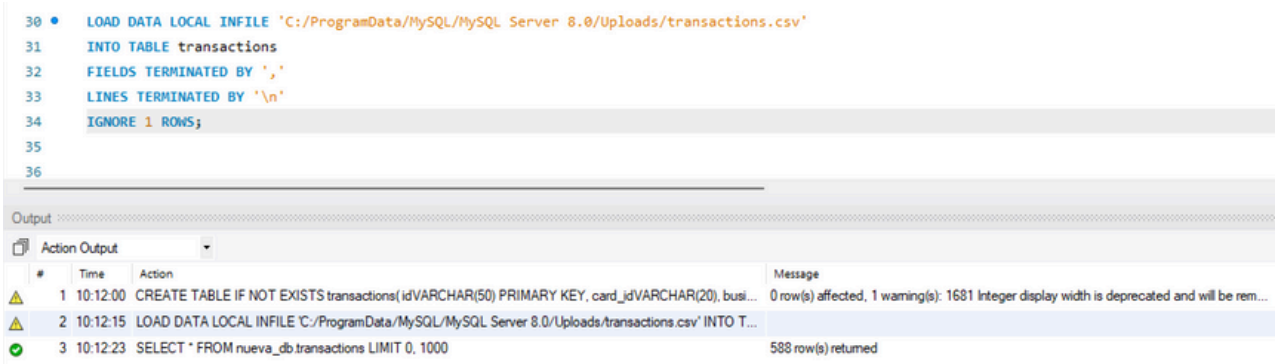
Descarga los archivos CSV, estudiales y diseña una base de datos con un esquema de estrella que contenga, al menos 4 tablas

Nueva Base de datos:



Creo la tabla transactions (Fact table)





```
1 •  SELECT * FROM nueva_db.transactions;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

id	card_id	business_id	timestamp	amount	declined	product_ids	user_id	lat	longitude
02C6201E-D90A-1859-B4EE-88D2986D3B02	CcU-2938	b-2362	28/08/2021 23:42	466.92	0	71, 1, 19	92	819,184,589,824	-125,275,561,984
0466A42E-47CF-8D24-FD01-C0B689713128	CcU-4219	b-2302	26/07/2021 07:29	49.53	0	47, 97, 43	170	-439,694,885,888	-1,175,251,835,904
063FBA79-99EC-66FB-29F7-25726D1764A5	CcU-2987	b-2250	06/01/2022 21:25	92.61	0	47, 67, 31, 5	275	-81,222,680,576	-129,049,879,552
0668296C-CDB9-A883-76BC-2E4C44F8C8AE	CcU-3743	b-2618	26/01/2022 02:07	394.18	0	89, 83, 79	265	-343,593,055,232	-100,555,928,064
06CD9AA5-9B42-D684-DDDD-A5E394FEBA99	CcU-2959	b-2346	26/10/2021 23:00	279.93	0	43, 31	92	337,381,445,632	158,298,210,304
07A46D48-31A3-7E87-65B9-0DA902AD109F	CcU-3225	b-2386	28/06/2021 21:11	340.87	1	47, 23	272	388,341,526,528	92,190,545,408
09DE92CE-6F27-2BB7-1385-9385B2B3B8E2	CcU-3071	b-2298	11/05/2021 20:40	303.05	1	67, 7	275	711,705,612,288	105,756,752,896
0A476ED9-0C13-1962-F87B-D3563924B539	CcU-4359	b-2302	26/02/2022 20:33	430.49	0	29, 41, 11	221	-56,490,077,696	1,148,012,315,648
0BEB80B7-9D66-1707-CE4B-9DC7E71914B5	CcU-3141	b-2338	04/03/2022 14:54	288.81	1	19, 41, 29, 3	272	233,264,027,648	-136,036,868,096
0C7C3A33-9947-3BC1-846D-7BE3D0D17598	CcU-3309	b-2434	10/04/2021 20:58	103.44	1	89, 31	272	633,614,763,008	-686,666,633,216
0CE957A6-CCAA-2B7A-6839-8A4B1B324853	CcU-3435	b-2506	02/02/2022 07:29	428.69	1	83, 43, 73, 61	269	-693,537,422,336	-102,600,429,568
0DD2E608-5C9E-D1B3-4999-B99F43AD735A	CcU-2959	b-2234	17/04/2021 05:30	252.47	1	7, 47, 17	275	96,881,091,584	130,282,389,504
1017AA59-3D5F-7A4C-1992-D151A8D1FA0A	CcU-3701	b-2618	01/11/2021 01:02	447.11	0	37, 13	267	4,276,451,328	-1,015,540,074,496

transactions 1 × Apply

Output

Action Output

#	Time	Action	Message	Duration
1	10:35:15	SELECT * FROM nueva_db.transactions LIMIT 0, 1000	587 row(s) returned	0.000 se

Creo la tabla companies (Dimension table)

```
37 •  CREATE TABLE IF NOT EXISTS companies(
38    company_id VARCHAR(20) PRIMARY KEY,
39    company_name VARCHAR(25),
40    phone VARCHAR(30),
41    email VARCHAR(50),
42    country VARCHAR(50),
43    website VARCHAR(100)
44    );
45
```

Output

Action Output

#	Time	Action	Message
1	10:07:04	CREATE TABLE IF NOT EXISTS companies(company_id VARCHAR(20) PRIMARY KEY, compan...	0 row(s) affected

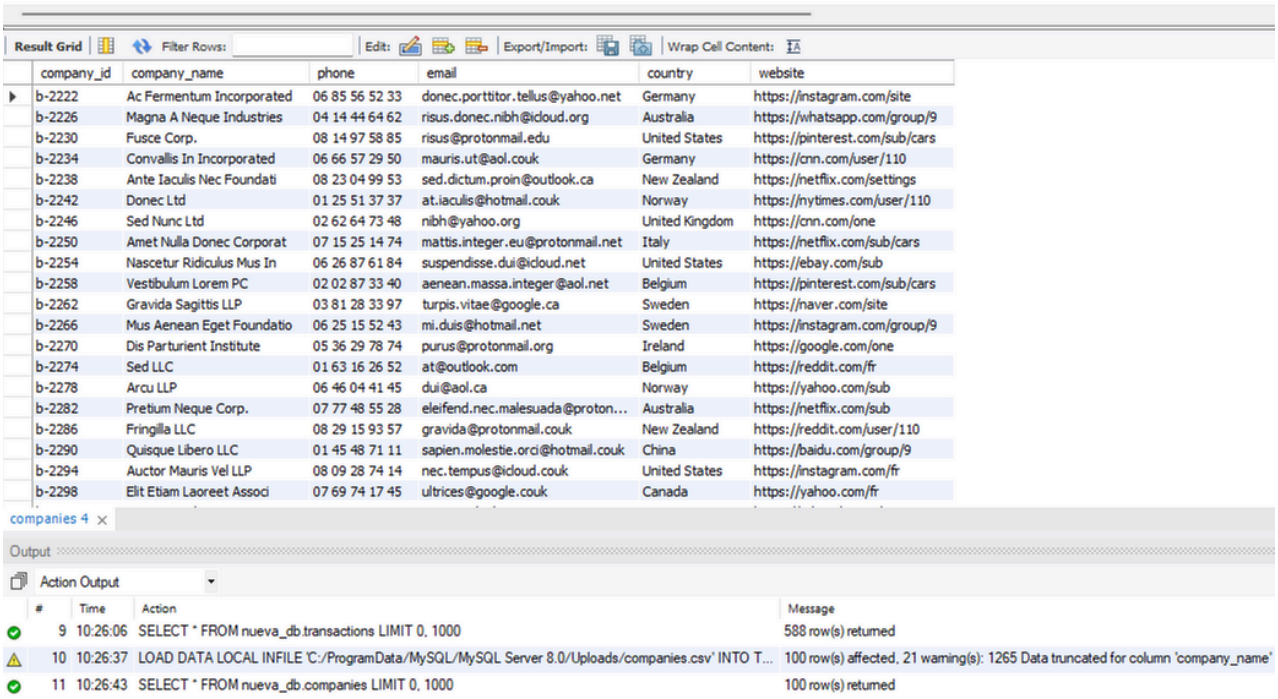
```
35 •  LOAD DATA LOCAL INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/companies.csv'
36    INTO TABLE companies
37    FIELDS TERMINATED BY ','
38    LINES TERMINATED BY '\n'
39    IGNORE 1 ROWS;
40
```

Output

Action Output

#	Time	Action	Message	Duration
9	10:26:06	SELECT * FROM nueva_db.transactions LIMIT 0, 1000	588 row(s) returned	0.000 se
10	10:26:37	LOAD DATA LOCAL INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/companies.csv' INTO T...	100 row(s) affected, 21 warning(s): 1265 Data truncated for column 'company_name' ...	0.000 se
11	10:26:43	SELECT * FROM nueva_db.companies LIMIT 0, 1000	100 row(s) returned	0.000 se

```sql
SELECT * FROM nueva_db.companies;
```



Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

company_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@protonmail.edu	United States	https://pinterest.com/sub/cars
b-2234	Convallis In Incorporated	06 66 57 29 50	mauris.ut@aol.couk	Germany	https://cnn.com/user/110
b-2238	Ante Iaculis Nec Foundati	08 23 04 99 53	sed.dictum.proin@outlook.ca	New Zealand	https://netflix.com/settings
b-2242	Donec Ltd	01 25 51 37 37	at.iaculis@hotmail.couk	Norway	https://nytimes.com/user/110
b-2246	Sed Nunc Ltd	02 62 64 73 48	nibh@yahoo.org	United Kingdom	https://cnn.com/one
b-2250	Amet Nulla Donec Corporat	07 15 25 14 74	mattis.integer.eu@protonmail.net	Italy	https://netflix.com/sub/cars
b-2254	Nascetur Ridiculus Mus In	06 26 87 61 84	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 33 97	turpis.vitae@google.ca	Sweden	https://naver.com/site
b-2266	Mus Aenean Eget Foundatio	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 48 55 28	eleifend.nec.malesuada@proton...	Australia	https://netflix.com/sub
b-2286	Fringilla LLC	08 29 15 93 57	gravida@protonmail.couk	New Zealand	https://reddit.com/user/110
b-2290	Quisque Libero LLC	01 45 48 71 11	sapien.molestie.orci@hotmail.couk	China	https://baidu.com/group/9
b-2294	Auctor Mauris Vel LLP	08 09 28 74 14	nec.tempus@icloud.couk	United States	https://instagram.com/fr
b-2298	Elit Etiam Laoreet Associ	07 69 74 17 45	ultrices@google.couk	Canada	https://yahoo.com/fr

companies 4

Output

Action Output

#	Time	Action	Message
9	10:26:06	SELECT * FROM nueva_db.transactions LIMIT 0, 1000	588 row(s) returned
10	10:26:37	LOAD DATA LOCAL INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/companies.csv' INTO T...	100 row(s) affected, 21 warning(s): 1265 Data truncated for column 'company_name'
11	10:26:43	SELECT * FROM nueva_db.companies LIMIT 0, 1000	100 row(s) returned

Creo la tabla credit_cards (Dimension table)

```sql
-- Tabla credit_card
CREATE TABLE IF NOT EXISTS credit_cards (
id VARCHAR(20) PRIMARY KEY,
user_id INT,
Iban VARCHAR(50),
pan VARCHAR(50),
pin VARCHAR(4),
cvv VARCHAR(3),
Track1 VARCHAR(100),
Track2 VARCHAR(100),
expiring_date date
);
```

Output

Action Output

#	Time	Action	Message
1	10:30:37	CREATE TABLE IF NOT EXISTS credit_cards (id VARCHAR(20) PRIMARY KEY, user_id INT, Iban VARCHA...	0 row(s) affected

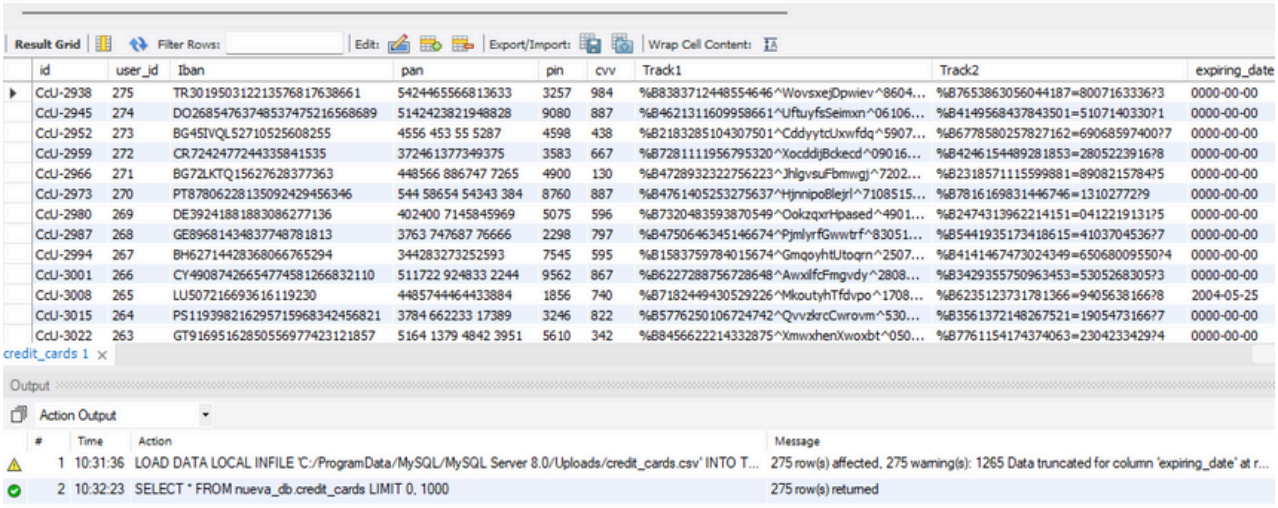
```sql
LOAD DATA LOCAL INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/credit_cards.csv'
INTO TABLE credit_cards
FIELDS TERMINATED BY ','
LINES TERMINATED BY '\n'
IGNORE 1 ROWS;
```

Output

Action Output

#	Time	Action	Message
1	10:31:36	LOAD DATA LOCAL INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/credit_cards.csv' INTO TA...	275 row(s) affected, 275 warning(s): 1265 Data truncated for column 'expiring_date' at ro...

```sql
SELECT * FROM nueva_db.credit_cards;
```



Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

id	user_id	Iban	pan	pin	cvv	Track1	Track2	expiring_date
CcU-2938	275	TR3019503122135768176386 61	5424465566813633	3257	984	%B8383712448554646^WovsxejDpwiev^8604...	%B7653863056044187=800716333673	0000-00-00
CcU-2945	274	DO26854763748537475216568689	5142423821948828	9080	887	%B4621311609958661^UftuyfsSeimxn^06106...	%B4149568437843501=51071403307 1	0000-00-00
CcU-2952	273	BG45IVQL52710525608255	4556 453 55 5287	4598	438	%B2183285104307501^CddyytcUxwfdq^5907...	%B6778580257827162=6906859740077	0000-00-00
CcU-2959	272	CR7242477244335841535	372461377349375	3583	667	%B7281111956795320^XocddjBckecd^09016...	%B4246154489281853=280522391678	0000-00-00
CcU-2966	271	BG72LKTQ15627628377363	448566 886747 7265	4900	130	%B4728932322756223^JhlgvsuFbmwgj^7202...	%B2318571115599881=890821578475	0000-00-00
CcU-2973	270	PT8780622813509242945634 6	544 58654 54343 384	8760	887	%B4761405253275637^HjnnipoBlejrl^7108515...	%B7816169831446746=1310277279	0000-00-00
CcU-2980	269	DE39241881883086277136	402400 7145845969	5075	596	%B7320483593870549^OokzqxrHpased^4901...	%B2474313962214151=041221913175	0000-00-00
CcU-2987	268	GE8968143483774878181 3	3763 747687 76666	2298	797	%B4750646345146674^PjmlyrfGwwtrf^83051...	%B5441935173418615=410370453677	0000-00-00
CcU-2994	267	BH6271442836806676529 4	344283273252593	7545	595	%B1583759784015674^GmqoyhtUtoqrn^2507...	%B4141467473024349=650680095507 4	0000-00-00
CcU-3001	266	CY4908742665477458126683211 0	511722 924833 2244	9562	867	%B6227288756728648^AwxlfcFmgvdy^2808...	%B3429355750963453=530526830573	0000-00-00
CcU-3008	265	LU507216693616119230	4485744464433884	1856	740	%B7182449430529226^MkoutyhTfdvpo^1708...	%B6235123731781366=940563816678	2004-05-25
CcU-3015	264	PS1193982162957159683424568 21	3784 662233 17389	3246	822	%B5776250106724742^QvvzkrcCwrovm^530...	%B3561372148267521=190547316677	0000-00-00
CcU-3022	263	GT9169516285055697742312185 7	5164 1379 4842 3951	5610	342	%B8456622214332875^XmwxhenXwoxbt^050...	%B7761154174374063=230423342974	0000-00-00

credit_cards 1

Output

Action Output

#	Time	Action	Message
1	10:31:36	LOAD DATA LOCAL INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/credit_cards.csv' INTO T...	275 row(s) affected, 275 warning(s): 1265 Data truncated for column 'expiring_date' at r...
2	10:32:23	SELECT * FROM nueva_db.credit_cards LIMIT 0, 1000	275 row(s) returned

Creo la tabla products (Dimension table)

```sql
-- Tabla product
CREATE TABLE IF NOT EXISTS products (
id VARCHAR(100) PRIMARY KEY,
product_name VARCHAR(50),
price DECIMAL(10,2),
colour VARCHAR(20),
weight DECIMAL(10,2),
warehouse_id VARCHAR(20)
);
```

Output

Action Output

#	Time	Action	Message
1	10:34:36	CREATE TABLE IF NOT EXISTS products (id VARCHAR(100) PRIMARY KEY, product_name VARCHAR(50)...	0 row(s) affected

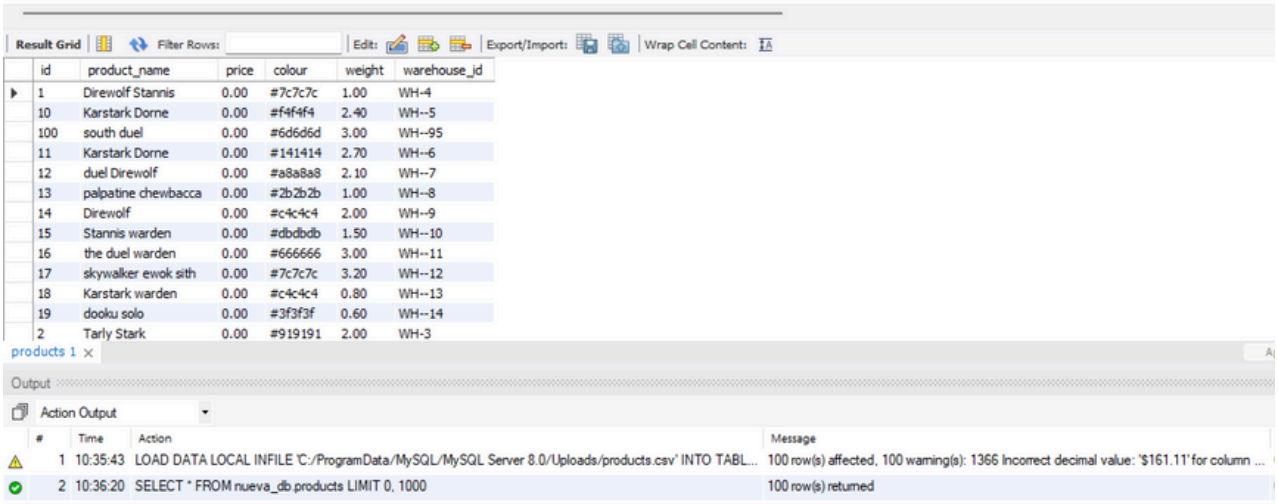
```sql
LOAD DATA LOCAL INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/products.csv'
INTO TABLE products
FIELDS TERMINATED BY ','
LINES TERMINATED BY '\n'
IGNORE 1 ROWS;
```

Output

Action Output

#	Time	Action	Message
1	10:35:43	LOAD DATA LOCAL INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/products.csv' INTO TABL...	100 row(s) affected, 100 warning(s): 1366 Incorrect decimal value: '$161.11' for column '...

```sql
SELECT * FROM nueva_db.products;
```



Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

id	product_name	price	colour	weight	warehouse_id
1	Direwolf Stannis	0.00	#7c7c7c	1.00	WH-4
10	Karstark Dorne	0.00	#f4f4f4	2.40	WH--5
100	south duel	0.00	#6d6d6d	3.00	WH--95
11	Karstark Dorne	0.00	#141414	2.70	WH--6
12	duel Direwolf	0.00	#a8a8a8	2.10	WH--7
13	palpatine chewbacca	0.00	#2b2b2b	1.00	WH--8
14	Direwolf	0.00	#c4c4c4	2.00	WH--9
15	Stannis warden	0.00	#dbdbdb	1.50	WH--10
16	the duel warden	0.00	#666666	3.00	WH--11
17	skywalker ewok sith	0.00	#7c7c7c	3.20	WH--12
18	Karstark warden	0.00	#c4c4c4	0.80	WH--13
19	dooku solo	0.00	#3f3f3f	0.60	WH--14
2	Tarly Stark	0.00	#919191	2.00	WH-3

products 1

Output

Action Output

#	Time	Action	Message
1	10:35:43	LOAD DATA LOCAL INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/products.csv' INTO TABL...	100 row(s) affected, 100 warning(s): 1366 Incorrect decimal value: '$161.11' for column ...
2	10:36:20	SELECT * FROM nueva_db.products LIMIT 0, 1000	100 row(s) returned

Creo la tabla users (Dimension table)

```sql
-- Tabla users
CREATE TABLE IF NOT EXISTS users (
id INT PRIMARY KEY,
name VARCHAR(50),
surname VARCHAR(50),
phone VARCHAR(30),
email VARCHAR(50),
birth_date VARCHAR(30),
country VARCHAR(50),
city VARCHAR(50),
post_code VARCHAR(50),
address VARCHAR(50)
);
```

Output

Action Output

#	Time	Action	Message
1	10:38:36	CREATE TABLE IF NOT EXISTS users (id INT PRIMARY KEY, name VARCHAR(50), surname VARCHAR(50)...	0 row(s) affected

```sql
LOAD DATA LOCAL INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/users_usa.csv'
INTO TABLE users
FIELDS TERMINATED BY ','
LINES TERMINATED BY '\n'
IGNORE 1 ROWS;

LOAD DATA LOCAL INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/users_ca.csv'
INTO TABLE users
FIELDS TERMINATED BY ','
LINES TERMINATED BY '\n'
IGNORE 1 ROWS;

LOAD DATA LOCAL INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/users_uk.csv'
INTO TABLE users
FIELDS TERMINATED BY ','
LINES TERMINATED BY '\n'
IGNORE 1 ROWS;
```

Output

Action Output

#	Time	Action	Message
1	10:40:03	LOAD DATA LOCAL INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/users_usa.csv' INTO TAB...	150 row(s) affected, 150 warning(s): 1262 Row 1 was truncated; it contained more data t...
2	10:40:45	LOAD DATA LOCAL INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/users_ca.csv' INTO TABL...	75 row(s) affected, 75 warning(s): 1262 Row 1 was truncated; it contained more data tha...
3	10:41:19	LOAD DATA LOCAL INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/users_uk.csv' INTO TABL...	50 row(s) affected, 50 warning(s): 1262 Row 1 was truncated; it contained more data tha...

```
1 •  SELECT * FROM nueva_db.users;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

id	name	surname	phone	email	birth_date	country	city	post_code	address
142	Wyatt	Morris	1-402-317-8621	consequat@google.org	"Oct 11	1992"	United States	Salt Lake ...	37463
143	Genevi...	Nolan	1-346-724-1579	quis@outlook.com	"Sep 3	1990"	United States	Springfield	37616
144	Jeanette	Blanchard	1-287-355-3938	amet.dapibus@google.couk	"Jul 6	1996"	United States	San Jose	26707
145	Ursula	Stewart	1-442-838-6756	commodo.auctor.velit@outlook.ca	"Feb 17	1994"	United States	Lincoln	69791
146	Priscilla	Skinner	(468) 855-0771	laoreet.lectus@aol.edu	"Jul 31	1980"	United States	Sandy	86701
147	Brody	Talley	(307) 307-2751	metus.sit.amet@outlook.org	"Jun 13	1991"	United States	Fayetteville	42374
148	Kerry	Adkins	(528) 872-1974	augue.eu.tempor@icloud.couk	"Mar 13	1983"	United States	Dallas	86373
149	Brock	Doyle	(265) 140-9567	cursus.a@aol.edu	"Feb 19	1986"	United States	Tuscaloosa	77945
150	Oleg	Coleman	1-131-139-5673	dis@outlook.edu	"Dec 2	1981"	United States	Indianapolis	28528
151	Meghan	Hayden	0800 746 6747	arcu.vel@hotmail.ca	"Jul 2	1980"	United Kingdom	Tullibody	A1Y 3TC
152	Hakeem	Alford	(0111) 367 0184	adipiscing.ligula@google.edu	"Sep 30	1979"	United Kingdom	Kettering	O21 7JV
153	Keegan	Pugh	(016977) 3851	sodales.nisi@aol.org	"Jul 27	1994"	United Kingdom	Whitehaven	HQ8V ...
154	Cooper	Bullock	(021) 2521 6627	et@outlook.net	"Nov 2	1986"	United Kingdom	Presteigne	U18 0DN
155	Joshua	Russell	055 4409 5286	justo.nec.ante@outlook.edu	"Jan 23	1984"	United Kingdom	Hatfield	B5H 5CS
156	Remedios	Case	055 3114 1566	mollis.phasellus.libero@aol.com	"Oct 9	1994"	United Kingdom	North Ber...	QR0 8CW
157	Philip	Carey	0800 640 6251	phasellus@yahoo.net	"Oct 10	1992"	United Kingdom	Lochgilphead	CE2 6HT
158	Fatima	Dyer	0800 1111	adipiscing@google.org	"Dec 24	1988"	United Kingdom	Northampton	IL3X 6XD
159	Kylynn	Acevedo	056 5727 9602	dignissim.lacus.aliquam@google.org	"May 10	2000"	United Kingdom	Pitlochry	K3 8UL
160	Lael	Moody	07123 850737	nunc.sed@aol.org	"Nov 19	1987"	United Kingdom	Brora	Q87 5JM
161	Nora	Reeves	(01692) 29410	ac@aol.com	"Dec 24	1989"	United Kingdom	Blaenau Ff...	T37 5PO

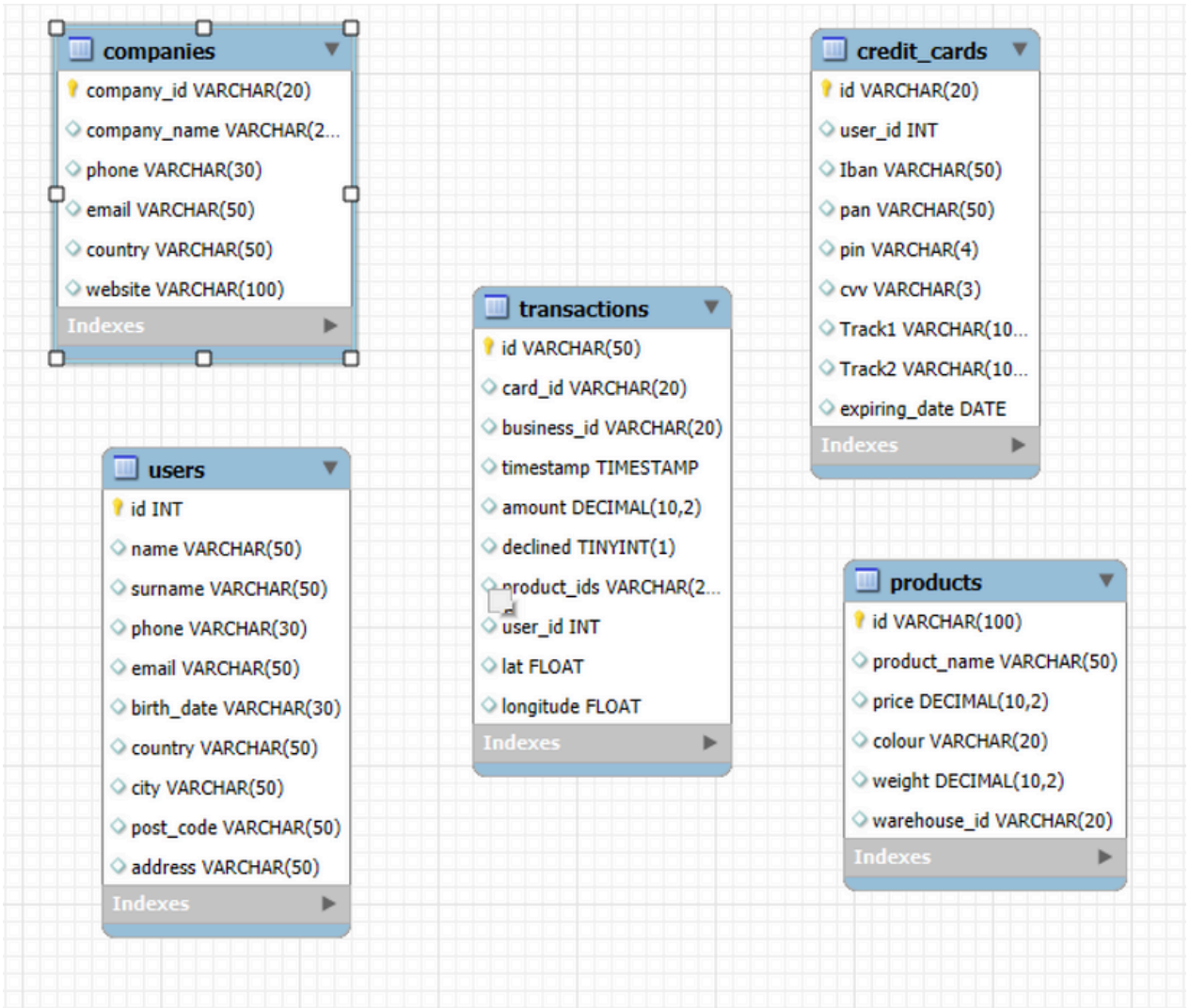
users 1 ×

Output

Action Output

#	Time	Action	Message
2	10:40:45	LOAD DATA LOCAL INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/users_ca.csv' INTO TA...	75 row(s) affected, 75 warning(s): 1262 Row 1 was truncated; it contained more data t...
3	10:41:19	LOAD DATA LOCAL INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/users_uk.csv' INTO TA...	50 row(s) affected, 50 warning(s): 1262 Row 1 was truncated; it contained more data t...
4	10:42:47	SELECT * FROM nueva_db.users LIMIT 0, 1000	275 row(s) returned

Tablas cradas sin relaciones



Creo las Foreign Key para relacionar las tablas

```
-- Claves Foraneas
ALTER TABLE transactions
ADD CONSTRAINT fk_companies_id
FOREIGN KEY (business_id) REFERENCES companies(company_id);

ALTER TABLE transactions
ADD CONSTRAINT fk_credit_cards_id
FOREIGN KEY (card_id) REFERENCES credit_cards(id);
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	12:37:05	ALTER TABLE transactions ADD CONSTRAINT fk_companies_id FOREIGN KEY (business_id) REFERENCE...	587 row(s) affected Records: 587 Duplicates: 0 Warnings: 0	0.109 sec
2	12:37:10	ALTER TABLE transactions ADD CONSTRAINT fk_credit_cards_id FOREIGN KEY (card_id) REFERENCES c...	587 row(s) affected Records: 587 Duplicates: 0 Warnings: 0	0.110 sec

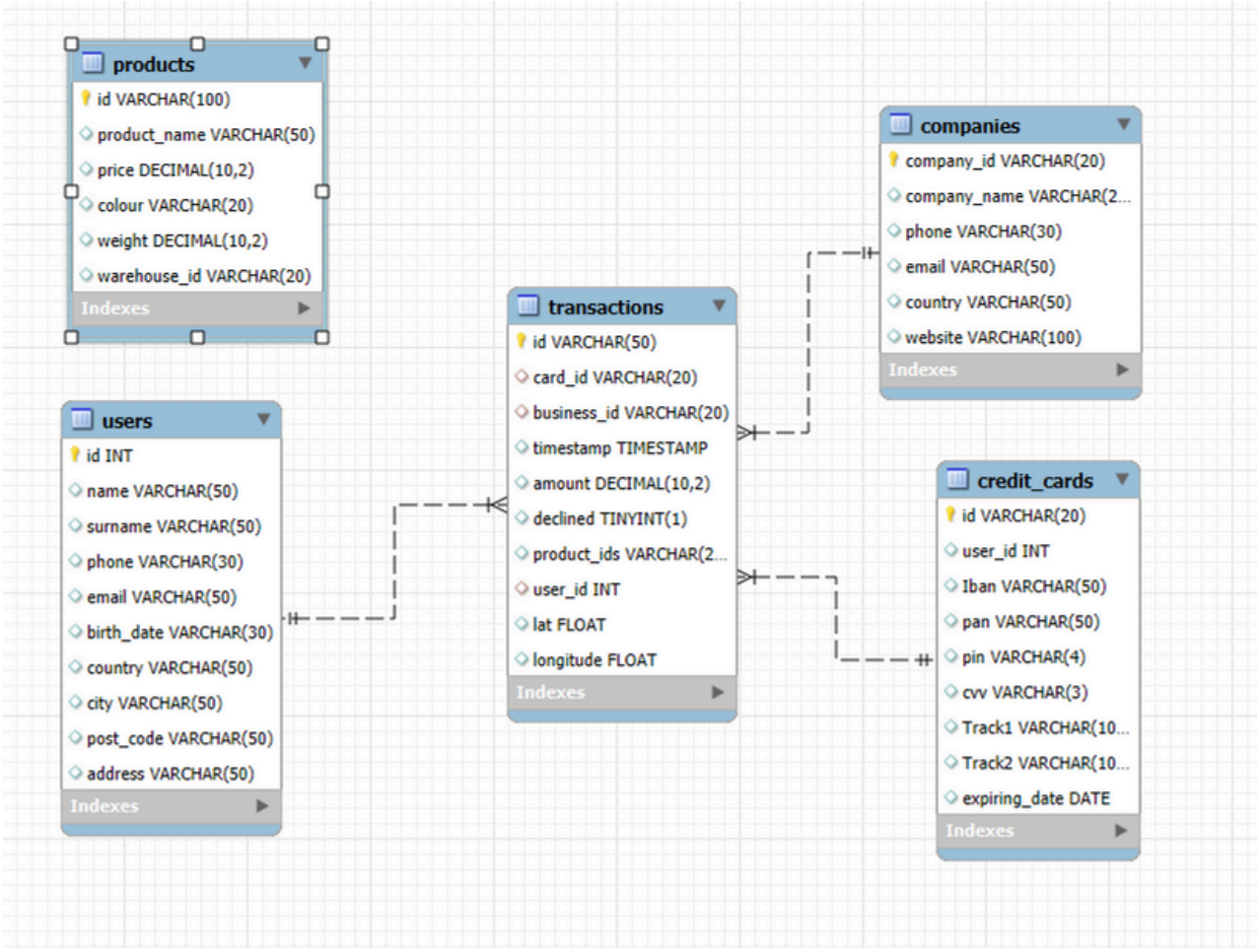
```
ALTER TABLE transactions
ADD CONSTRAINT fk_users_id
FOREIGN KEY (user_id) REFERENCES users(id);
```

Output

Action Output

#	Time	Action	Message
1	12:50:58	ALTER TABLE transactions ADD CONSTRAINT fk_users_id FOREIGN KEY (user_id) REFERENCES users(id)	587 row(s) affected Records: 587 Duplicates: 0 Warnings: 0

Diagrama luego de las conexiones realizadas (1:N) con la tabla transactions.
La tabla products por ahora no se realiza conexion ya que se hará más adelante.



Ejercicio 1
Realiza una subconsulta que muestre a todos los usuarios con más de 30 transacciones utilizando al menos 2 tablas.

```sql
-- Usuarios con mas de 30 transacciones
SELECT id, name, surname
FROM users
WHERE id IN (
    SELECT transactions.user_id
    FROM transactions
    GROUP BY transactions.user_id
    HAVING COUNT(transactions.id) > 30
);
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

id	name	surname
NULL	NULL	NULL

users 13

Output

Action Output

#	Time	Action	Message
1	13:26:53	SELECT id, name, sumame FROM users WHERE id IN (SELECT transactions.user_id FROM transactio...	0 row(s) returned

Ejercicio 2
Muestra la media de amount por IBAN de las tarjetas de crédito en la compañía Donec Ltd., utiliza por lo menos 2 tablas.

```sql
-- Compania Donec LTD
SELECT cc.Iban, AVG(t.amount) as Media_amount
FROM credit_cards cc
JOIN transactions t ON cc.id = t.card_id
JOIN companies c ON t.business_id = c.company_id
WHERE c.company_name = 'Donec Ltd'
GROUP BY cc.Iban;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Iban	Media_amount
PT87806228135092429456346	203.715000

Result 14

Output

Action Output

#	Time	Action	Message
1	10:09:25	SELECT cc.Iban, AVG(t.amount) as Media_amount FROM credit_cards cc JOIN transactions t ON cc.id = t.card_id JOIN companies c ON t.business...	1 row(s) returned

Sprint 4 - Nivel 2

Crea una nueva tabla que refleje el estado de las tarjetas de crédito basado en si las últimas tres transacciones fueron declinadas y genera la siguiente consulta:
1 - ¿Cuántas tarjetas están activas?

```sql
CREATE TABLE credit_card_status (
    card_id VARCHAR(20) PRIMARY KEY,
    active tinyint,
    FOREIGN KEY (card_id) REFERENCES credit_cards(id)
);
```

Output

Action Output

#	Time	Action	Message
1	22:06:03	CREATE TABLE credit_card_status (card_id VARCHAR(20) PRIMARY KEY, active tinyint, FOREIGN KEY (card_id) REFERENCES credit_car...	0 row(s) affected

```sql
SELECT
    cc.id,
    CASE
        WHEN (SELECT COUNT(*)
              FROM transactions t
              WHERE t.card_id = cc.id
              ORDER BY t.timestamp DESC
              LIMIT 3
             ) = 3 AND
             (SELECT COUNT(*)
              FROM transactions t
              WHERE t.card_id = cc.id
              AND t.declined = 1
              ORDER BY t.timestamp DESC
               LIMIT 3) = 3
        THEN 0
        ELSE 1
    END AS active
FROM credit_cards cc;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

id	active
CcU-2938	1
CcU-2945	1
CcU-2952	1
CcU-2959	1
CcU-2966	1
CcU-2973	1
CcU-2980	1

Result 14

Output

Action Output

#	Time	Action	Message
1	21:58:37	SELECT cc.id, CASE WHEN (SELECT COUNT(*) FROM transactions t WHERE t.card_id = cc.id ORDER BY t.ti...	275 row(s) returned

```sql
INSERT INTO credit_card_status (card_id, active)
SELECT
    cc.id,
    CASE
        WHEN (SELECT COUNT(*)
              FROM transactions t
              WHERE t.card_id = cc.id
              ORDER BY t.timestamp DESC
              LIMIT 3
             ) = 3 AND
             (SELECT COUNT(*)
              FROM transactions t
              WHERE t.card_id = cc.id
              AND t.declined = 1
              ORDER BY t.timestamp DESC
               LIMIT 3) = 3
        THEN 0
        ELSE 1
    END AS active
FROM credit_cards cc;
```

Output

Action Output

	#	Time	Action	Message
✔	1	22:07:48	INSERT INTO credit_card_status (card_id, active) SELECT cc.id, CASE WHEN (SELECT COUNT(*) FROM transactions t ...	275 row(s) affected Records: 275 Duplicates: 0 Warnings: 0

```sql
SELECT COUNT(*) as Número_de_Tarjetas_Activas
FROM credit_card_status
WHERE active = 1;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Número_de_Tarjetas_Activas
275

Result 18 ×

Output

Action Output

	#	Time	Action	Message
✔	1	22:11:36	SELECT COUNT(*) as Número_de_Tarjetas_Activas FROM credit_card_status WHERE active = 1 LIMIT 0, 1000	1 row(s) returned

Sprint 4 - Nivel 3

Crea una tabla con la que podamos unir los datos del nuevo archivo products.csv con la base de datos creada, teniendo en cuenta que desde transaction tienes product_ids. Genera la siguiente consulta:

Ejercicio 1

Necesitamos conocer el número de veces que se ha vendido cada producto.

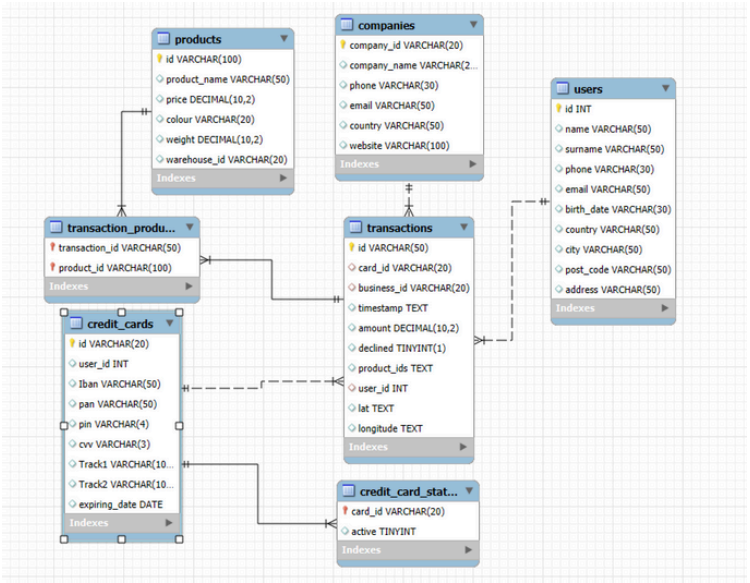
Para esto necesitamos crear una tabla intermedia con relacion de muchos a muchos

```sql
CREATE TABLE transaction_products (
    transaction_id VARCHAR(50),
    product_id VARCHAR(100),
    PRIMARY KEY (transaction_id, product_id),
    FOREIGN KEY (transaction_id) REFERENCES transactions(id),
    FOREIGN KEY (product_id) REFERENCES products(id)
);
```

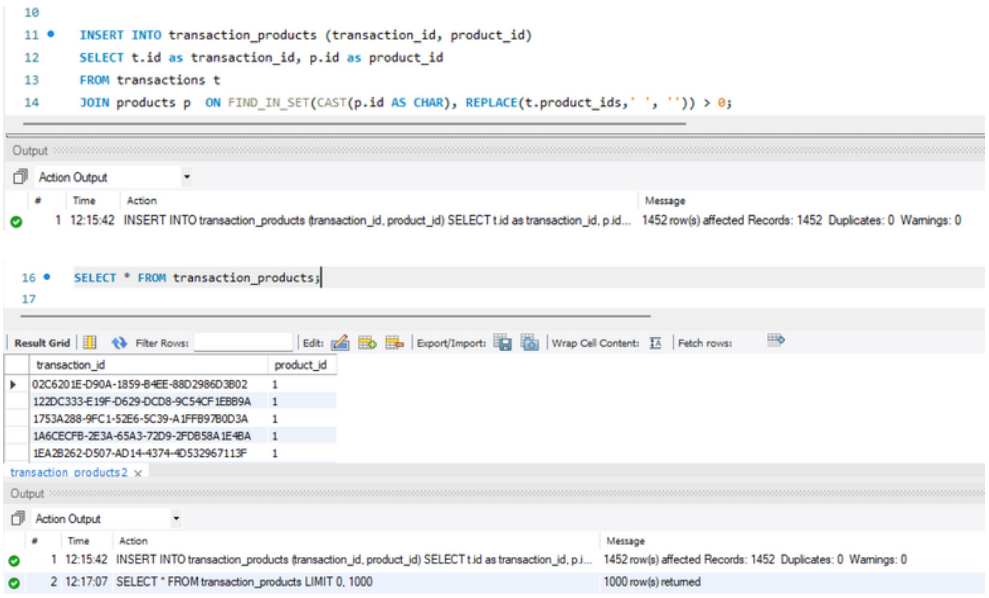
Output

Action Output

	#	Time	Action	Message
✔	1	13:35:48	CREATE TABLE transaction_products (transaction_id VARCHAR(50), product_id VARCHAR(...	0 row(s) affected



Insertamos los datos en la tabla 'transaction_products' separando los product_id que estaban en una misma celda con ','



Numero de veces que se ha vendido cada producto