

Pasos previos al ejercicio.

Creacion de schema por codigo.

```
CREATE DATABASE economy;
```

Primero de todo intente coger como referencia de los datos la anterior tabla(Sprint3) que guardaba similitud. También intente comprobar directamente en los archivos .csv utilizando calc (=TIPO (campo+fila)).Solo arrojaba 0 numérico y 1 texto.

Después de muchas pruebas donde por ejemplo int me lo indicaba como caducado. Entonces he ido a lo seguro con varchar. La medidas (255) las he utilizado sobretodo en las PK y Fk.

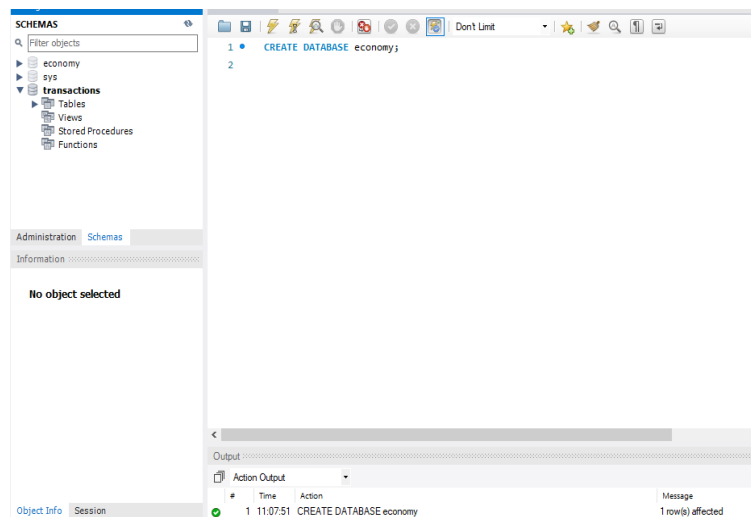
Es cierto que podía ajustar más , pero sin ninguna directriz extra , tanto de evolución de las tablas , empresas , volumen de operaciones o alguna evidencia a medio o largo plazo , he utilizado los numero mas altos para esos campos.

Creo que podía utilizar floats en algunos sitios y los utilice . Pero he tenido problemas no causado por esto , mas bien eran errores de escritura de los campos o no estaban bien posicionado los campos . Esto me paso con la tabla transactions.

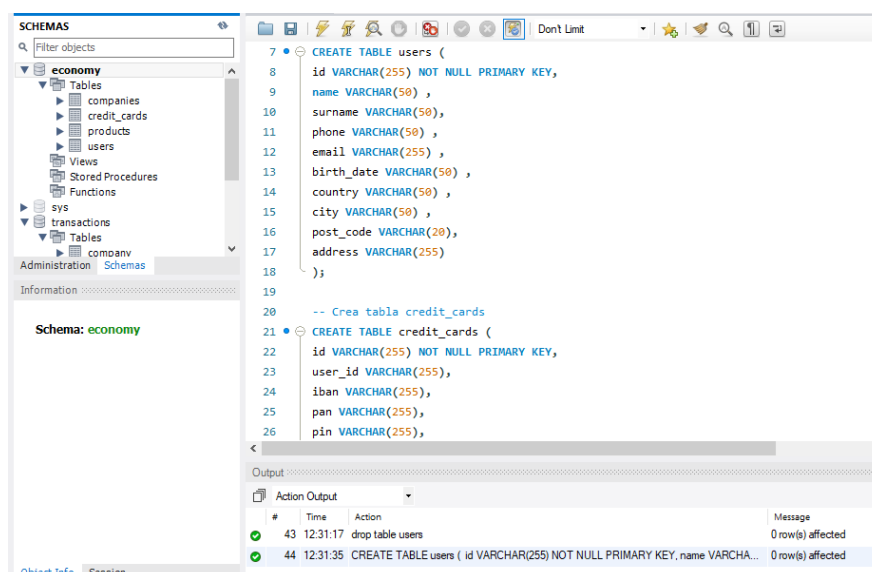
Errores así me hicieron decantarme con varchar y descartar tipos de datos como decimal para amount o float para longitud / lat.

Según la inspección de la tabla anterior de transactions del sprint 3 pues esos datos y tuve algún que otro problema . Se pueden revisar con varias opciones por comando o de manera gráfica.

La tabla transactions la borre varias veces por querer hacerla parecida a la del anterior sprint, pero tenia campo diferentes entre otras cosas .



Creación tabla Users.



En esta tabla descargue todos los datos de las tres tablas , sin crear unas provisionales. Todos los formatos y campos eran iguales. Solo modificaba la parte final del archivo usa.csv, ca.csv , etc.

Tabla credit_cards

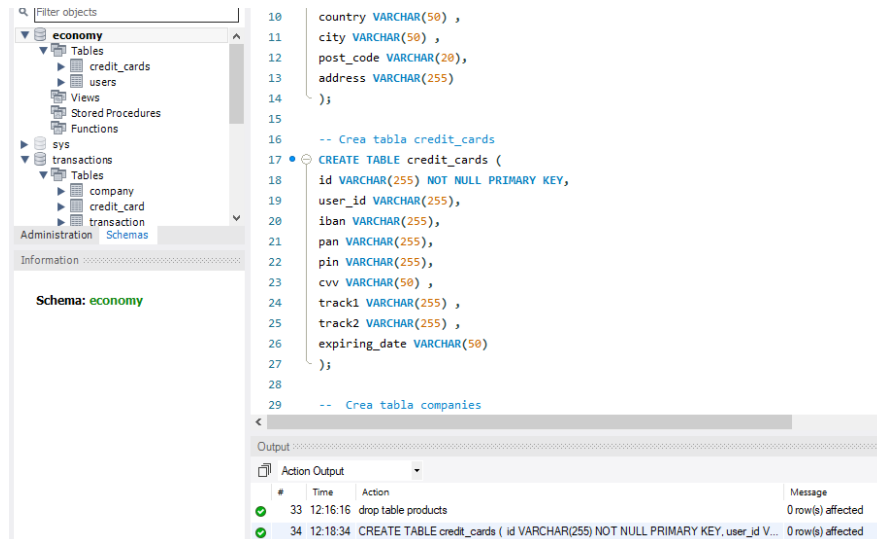


Tabla products

Esta tabla tenia pensado créala y después unirla a través de una tabla intermedia para no tener una granularidad $n \rightarrow m$.

Esto puede dar problemas de duplicidades o problemas en el futuro . Se puede trabajar si, pero como he comentado antes , en proyectos muy grandes puede ocasionar problemas.

Pero al final descarte la idea al no ser necesaria.

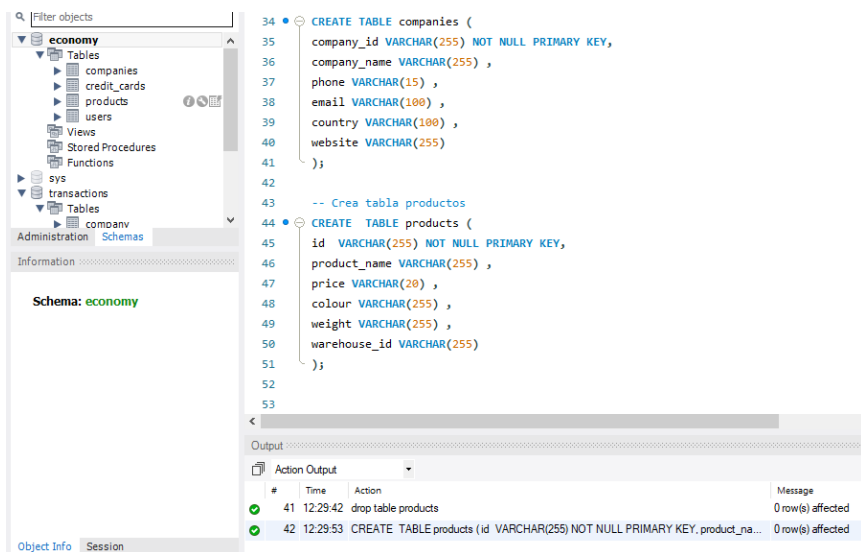
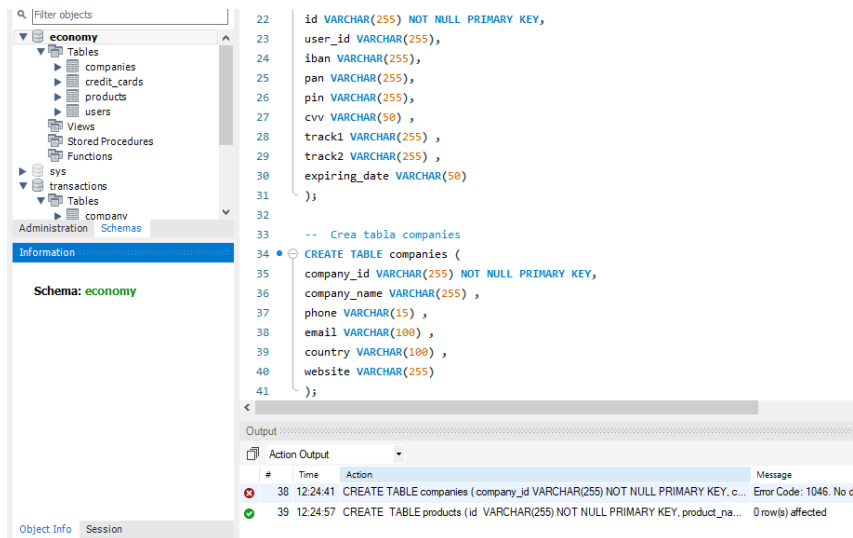


Tabla companies



A continuación muestro la manera de descargar los archivo .csv.

Esto me dio algún dolor de cabeza que otro, por pensar que descargaría directamente si colocaba una ruta absoluta, estuvieran donde estuvieran. Pero tenia otro procedimiento. Primero con este comando SHOW VARIABLE LIKE 'secure_file_priv', muestra la ruta para colocar los archivos a subir a workbench.

LOAD DATA INFILE - descarga de aquí

INTO TABLE (en esta tabla)

Algunos archivos tenia sus particularidades en FIELDS TERMINATED BY “,” – “;” – como se delimita cada campo en sus filas.

ENCLOSED BY ‘ ‘ ‘ para determinar opción específica entre comillas dobles,

LINES TERMINATED BY “\n” o “\r\n” y alguna combinación mas que probé, pero esto tenia que ver con la terminación de la línea.

IGNORE _ LINES Para ignorar las líneas del encabezado que quieras. Muchas veces pueden contener títulos o algún tipo de dato no necesario.

Navigator

Schemas

Filter objects

economy

Tables

companies

credit_cards

products

transactions

users

Views

Stored Procedures

Functions

sys

transactions

transactionsv1

Administration

Schemas

Information

No object selected

Object Info Session

Sprint4Abel - CreacionTablas otroPuntoDeVista

LOAD DATA INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/companies.csv'

INTO TABLE companies

FIELDS TERMINATED BY ','

ENCLOSED BY ''

LINES TERMINATED BY '\n'

IGNORE 1 LINES;

SHOW VARIABLES LIKE 'secure_file_priv';

select * from companies;

Result Grid

company_id	company_name	phone	email	country	website
b-2222	Ac Fermentum Incorporated	06 85 56 52 33	donec.porttitor.telus@yahoo.net	Germany	https://instagram.com/site
b-2226	Magna A Nique 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	Conville In Incorporated	06 66 57 29 50	mauris.ut@eol.co.uk	Germany	https://corni.com/user/110
b-2238	Anne Inculc Nec Foundation	08 23 04 99 53	sed.dictum.prim@outlook.ca	New Zealand	https://netflix.com/settings
b-2242	Donec Ltd	01 25 51 37 37	at.laculis@hotmail.co.uk	Norway	https://mytimes.com/user/110
b-2246	Sed Nunc Ltd	02 62 64 73 48	nibh@yahoo.org	United Kingdom	https://corni.com/one
b-2250	Amet Nulla Donec Corporation	07 15 25 14 74	mattis.integer.eu@protonmail.net	Italy	https://netflix.com/sub/cars
b-2254	Nascetur Ridiculus Mus Inc.	06 26 87 61 84	suspendisse.dui@cloud.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

companies 2 x

Output

Action Output

#	Time	Action	Message
3	13.18.01	LOAD DATA INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/companies.csv'	100 row(s) affected Records: 100 Deleted: 0 Skipped: 0 Warnings: 0
4	13.19.59	select * from companies	100 row(s) returned

Navigator

Schemas

Filter objects

economy

Tables

companies

credit_cards

products

transactions

users

Views

Stored Procedures

Functions

sys

transactions

transactionsv1

Administration

Schemas

Information

No object selected

Object Info Session

Sprint4Abel - CreacionTablas otroPuntoDeVista

LOAD DATA INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/credit_cards.csv'

INTO TABLE credit_cards

FIELDS TERMINATED BY ','

ENCLOSED BY ''

LINES TERMINATED BY '\n'

IGNORE 1 LINES;

SELECT * FROM credit_cards;

Result Grid

id	user_id	iban	pan	pin	cvv	track1	track2
CcU-2938	275	TR301950312213576817638661	5424465566813633	3257	984	%68383712448554646~%WovvexepDpwiev~%8604...	%67653863056044187~800716333673
CcU-2945	274	DO28654763748537475216568689	514242821948828	9080	887	%64621211609938861~%UfluyfSeimn~%06106...	%64149568437843501~510714033071
CcU-2952	273	864481VQL5270525680255	4558 453 55 5387	4598	438	%62183285104307501~%CcdyfcLwvflq~%9007...	%681778580257827162~%9068859740077
CcU-2959	272	CR74242477244358415353	372461377349375	3583	667	%67728111956795330~%ocddBjKedc~%09016...	%64246154489381853~280522391678
CcU-2966	271	8G72KTY15627628377363	448566 886747 7265	4900	130	%64728932222756223~%JhgysuFbmwig~%7202...	%67816169831446746~1310277229
CcU-2973	270	PT8780622813509429456346	544 58654 54343 384	8760	887	%64728932222756223~%JhgysuFbmwig~%7202...	%67816169831446746~1310277229
CcU-2980	269	DE39241881883086277136	402400 7145845969	5075	596	%67320483593870549~%OokzqvHpassed~%4901...	%62474313962214151~041221913175
CcU-2987	268	GE99681454837746781813	3763 747687 7666	2298	797	%64750646345146674~%PmjyfoWwvtrf~%8305...	%65441335173418615~410370453677
CcU-2994	267	8H62714428368066765294	344383273252593	7545	595	%61583759764015674~%GmqyHtJtoqm~%2307...	%64141467473624349~%506800955024

credit_cards 1 x

Output

Action Output

#	Time	Action	Message
1	15.36.55	LOAD DATA INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/credit_cards.c...	275 row(s) affected Records: 275 Deleted: 0 Skipped: 0 Warnings: 0
2	15.40.37	SELECT * FROM credit_cards	275 row(s) returned

SPRINT 4

Abel

The screenshot shows the SQL Server Enterprise Manager interface. On the left, the 'SCHEMAS' pane shows the 'economy' schema. The main pane displays a SQL script with the following lines:

```
98 INTO TABLE transactions
99 FIELDS TERMINATED BY ','
100 ENCLOSED BY '"'
101 LINES TERMINATED BY '\n'
102 IGNORE 1 LINES;
103
104 • LOAD DATA INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/users_usa.csv'
105 INTO TABLE users
106 FIELDS TERMINATED BY ','
107 ENCLOSED BY '"'
108 LINES TERMINATED BY '\n\n'
109 IGNORE 1 ROWS;
110
111
112
113
114
115
116 • SHOW VARIABLES LIKE 'secure_file_priv';
```

The 'Output' pane shows the following results:

#	Time	Action	Message
20	16:17:56	select * from transactions	0 row(s) returned
21	16:19:16	LOAD DATA INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/users_usa.c...	150 row(s) affected Records: 150 Deleted: 0 Skipped: 0 Warnings: 0

The screenshot shows the SQL Server Enterprise Manager interface. On the left, the 'SCHEMAS' pane shows the 'economy' schema. The main pane displays a SQL script with the following lines:

```
99 FIELDS TERMINATED BY ','
100 ENCLOSED BY '"'
101 LINES TERMINATED BY '\n'
102 IGNORE 1 LINES;
103
104 • LOAD DATA INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/users_usa.csv'
105 INTO TABLE users
106 FIELDS TERMINATED BY ','
107 ENCLOSED BY '"'
108 LINES TERMINATED BY '\n\n'
109 IGNORE 1 ROWS;
110
111 • LOAD DATA INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/users_uk.csv'
112 INTO TABLE users
113 FIELDS TERMINATED BY ','
114 ENCLOSED BY '"'
115 LINES TERMINATED BY '\n\n'
116 IGNORE 1 ROWS;
117
118
```

The 'Output' pane shows the following results:

#	Time	Action	Message	Duration / Fets
21	16:19:16	LOAD DATA INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/users_usa.c...	150 row(s) affected Records: 150 Deleted: 0 Skipped: 0 Warnings: 0	0.015 sec
22	16:21:14	LOAD DATA INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/users_uk.cs...	50 row(s) affected Records: 50 Deleted: 0 Skipped: 0 Warnings: 0	0.016 sec

Navigator: SPRINT4Abel - CreacionTablas otroPuntoDeVista

SCHEMAS: Filter objects

- economy
 - companies
 - credit_cards
 - transactions
 - users
 - Views
 - Stored Procedures
 - Functions
- sys
- transactions
- transactionsvt

Administration: Schemas

Information: Schema: economy

```

118 • LOAD DATA INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/users_ca.csv'
119 INTO TABLE users
120 FIELDS TERMINATED BY ','
121 ENCLOSED BY '"'
122 LINES TERMINATED BY '\r\n'
123 IGNORE 1 ROWS;
124
125 • SELECT * FROM users;
  
```

Result Grid

id	name	surname	phone	email	birth_date	country	city	post_code	address
1	Zeus	Gamble	1-282-581-0551	interdum.enim@protonmail.edu	Nov 17, 1985	United States	Lowell	73544	948-7818 Sagittis St.
10	Robert	Mccarthy	(324) 746-6771	fermentum@protonmail.com	Apr 30, 1994	United States	Eugene	85535	P.O. Box 773, 3594 Onore St.
100	Melodie	Mclean	1-677-221-7152	rius.varius@google.ca	Sep 15, 1989	United States	College	11838	Ap #644-8492 Sagittis St.
101	Sarah	Beck	(358) 691-4345	vitae.rius@aol.co.uk	Apr 9, 1983	United States	Great Falls	67129	Ap #374-7325 Sodales Rd.
102	Jasper	Landry	1-397-765-1118	consectetur.euamod@aol.org	Apr 16, 1982	United States	Columbus	11595	Ap #374-7325 Sodales Rd.
103	Upton	Chavez	(227) 785-6484	eusmod.est@aol.ca	Mar 15, 1986	United States	Essex	95631	1990 Vel. Av.
104	Martha	Barlow	(732) 326-5448	vdutate@hotmail.net	Oct 29, 1988	United States	Chicago	41512	Ap #311-7103 In Avenue
105	Hashim	Rose	(958) 313-6727	urna@icloud.com	Mar 26, 1983	United States	Tacoma	99632	8034 Torlor, Road
106	Tanner	Valenzuela	1-346-421-3135	nascetur.ridiculus@google.net	Apr 6, 1993	United States	Naperville	31130	Ap #114-2616 Fusce Road
107	Victor	Valencia	(239) 569-1938	non.enim@hotmail.co.uk	May 1, 1998	United States	Warren	15158	Ap #182-9926 At St.

users 4 x

Output: Action Output

#	Time	Action	Message	Duration / Fetch
23	16:22:37	LOAD DATA INFILE C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/users_ca.csv	75 row(s) affected Records: 75 Deleted: 0 Skipped: 0 Warnings: 0	0.015 sec
24	16:25:35	SELECT * FROM users	275 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Navigator: SPRINT4Abel - CreacionTablas otroPuntoDeVista

SCHEMAS: Filter objects

- economy
 - companies
 - credit_cards
 - transactions
 - users
 - Views
 - Stored Procedures
 - Functions
- sys
- transactions
- transactionsvt

Administration: Schemas

Information: Schema: economy

```

105 INTO TABLE users
106 FIELDS TERMINATED BY ','
107 ENCLOSED BY '"'
108 LINES TERMINATED BY '\r\n'
109 IGNORE 1 ROWS;
110
111 • LOAD DATA INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/users_uk.csv'
112 INTO TABLE users
113 FIELDS TERMINATED BY ','
114 ENCLOSED BY '"'
115 LINES TERMINATED BY '\r\n'
116 IGNORE 1 ROWS;
117
118 • LOAD DATA INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/users_ca.csv'
119 INTO TABLE users
120 FIELDS TERMINATED BY ','
121 ENCLOSED BY '"'
122 LINES TERMINATED BY '\r\n'
123 IGNORE 1 ROWS;
124
  
```

Output: Action Output

#	Time	Action	Message	Duration / Fetch
22	16:22:14	LOAD DATA INFILE C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/users_uk.csv	50 row(s) affected Records: 50 Deleted: 0 Skipped: 0 Warnings: 0	0.016 sec
23	16:22:37	LOAD DATA INFILE C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/users_ca.csv	75 row(s) affected Records: 75 Deleted: 0 Skipped: 0 Warnings: 0	0.015 sec

Object Info Session

Navigator: SPRINT4Abel - CreacionTablas otroPuntoDeVista

SCHEMAS: Filter objects

- economy
 - companies
 - credit_cards
 - users
 - Views
 - Stored Procedures
 - Functions
- sys
- transactions
- transactionsvt

Administration: Schemas

Information: No object selected

```

59
60 -- tabla transactions
61
62 • CREATE TABLE transactions (
63   id VARCHAR(255) NOT NULL PRIMARY KEY,
64   card_id VARCHAR(255),
65   business_id VARCHAR(255),
66   timestamp VARCHAR(20),
67   amount VARCHAR(20),
68   declined VARCHAR(1),
69   product_ids VARCHAR(255),
70   user_id VARCHAR(255),
71   lat VARCHAR(255),
72   longitude VARCHAR(255)
73 );
74 • describe transactions;
75 • select * from transactions;
76 • Drop table transactions;
77
78
  
```

Output: Action Output

#	Time	Action	Message
43	11:41:53	Drop table transactions	0 row(s) affected
44	11:41:57	CREATE TABLE transactions (id VARCHAR(255) NOT NULL PRIMARY KEY, card_id VARCHAR(255), business_id VARCHAR(255), timestamp VARCHAR(20), amount VARCHAR(20), declined VARCHAR(1), product_ids VARCHAR(255), user_id VARCHAR(255), lat VARCHAR(255), longitude VARCHAR(255))	0 row(s) affected

Object Info Session

The screenshot shows the SQL Server Enterprise Manager interface. The left pane displays the 'Schemas' tree with 'economy' expanded, showing 'Tables', 'Views', 'Stored Procedures', 'Functions', 'sys', 'transactions', and 'transactionsvt'. The 'Information' pane shows 'No object selected'. The main pane displays a SQL script with the following lines:

```

102 LOAD DATA INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/transactions.csv'
103 INTO TABLE transactions
104 FIELDS TERMINATED BY ';'
105 ENCLOSED BY '"'
106 LINES TERMINATED BY '\n'
107 IGNORE 1 LINES;
108
109 SELECT * FROM transactions;
110
111

```

The 'Result Grid' shows the following data:

id	card_id	business_id	timestamp	amount	declined	product_ids	user_id	lat	longitude
02C6201E-D90A-1859-84EE-80C298D3802	CdJ-2938	b-2362	2021-08-28 23:42:24	466.92	0	71, 1, 19	92	81.9184589824	-12.5275561984
0466A42E-47CF-8D24-FD01-C0B689713128	CdJ-4219	b-2302	2021-07-26 07:29:18	49.53	0	47, 97, 43	170	-43.9694885888	-117.5251835904
063FBA79-99EC-66F8-29F7-25726D1764A5	CdJ-2987	b-2250	2022-01-06 21:25:27	92.61	0	47, 67, 31, 5	275	-81.222680576	-129.048879552
0668296C-CD89-A883-2E4C-44F8C8AE	CdJ-3743	b-2618	2022-01-26 02:07:14	394.18	0	89, 83, 79	265	-34.3593055232	-100.555928064
06C29A45-8842-0684-02CD-43E294F8BA09	CdJ-2959	b-2346	2021-10-26 23:00:01	279.93	0	43, 31	92	33.7381446632	158.298210304
07A46D48-31A3-7E87-6589-0DA902AD109F	CdJ-3225	b-2386	2021-06-28 21:11:42	340.87	1	47, 23	272	38.8341526528	92.190545408
090E92CE-4F27-2887-13E5-938382B388E2	CdJ-3071	b-2298	2021-05-11 20:40:06	303.05	1	67, 7	275	71.1705612288	10.5756752896
0A478ED9-0C13-1962-F876-03563924B539	CdJ-4359	b-2302	2022-02-26 20:33:54	430.49	0	29, 41, 11	221	-56.490077696	114.8012315648
0EB808D7-4D66-1707-CE4B-4DC7E71914B5	CdJ-3141	b-2338	2022-03-04 14:54:35	288.81	1	19, 41, 29, 3	272	23.3264027648	-13.6036868096
0C7C3A33-9947-38C1-846D-78E3D0D17598	CdJ-3309	b-2404	2021-04-10 20:58:41	103.44	1	89, 31	272	63.3614783008	-68.6666633216

The 'Output' pane shows the following action output:

Time	Action	Message
45 11:43:54	LOAD DATA INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/transactions.csv'	587 row(s) affected Records: 587 Deleted: 0 Skipped: 0 Warnings: 0
46 11:43:59	SELECT * FROM transactions	587 row(s) returned

Combinación de tablas , donde se efectúa una alteración/modificación de tabla X.
 Restricción de la tabla donde se le añade un texto y el texto da una idea de la operación.
 Por ultimo se especifica la Fk y se establece la referencia con la otra tabla y el campo.

The screenshot shows the SQL Server Enterprise Manager interface. The left pane displays the 'Schemas' tree with 'economy' expanded, showing 'Tables', 'Views', 'Stored Procedures', 'Functions', 'sys', 'transactions', and 'transactionsvt'. The 'Information' pane shows 'No object selected'. The main pane displays a SQL script with the following lines:

```

144 IGNORE 1 ROWS;
145
146 SELECT * FROM users;
147
148 -- Combinación de tablas
149
150 ALTER TABLE transactions
151 ADD CONSTRAINT fk_transactions_card
152 FOREIGN KEY (card_id) REFERENCES credit_cards(id);
153
154 ALTER TABLE transactions
155 ADD CONSTRAINT fk_transactions_company
156 FOREIGN KEY (business_id) REFERENCES companies(company_id);
157
158 ALTER TABLE transactions
159 ADD CONSTRAINT fk_transactions_user
160 FOREIGN KEY (user_id) REFERENCES users(id);
161
162

```

The 'Output' pane shows the following action output:

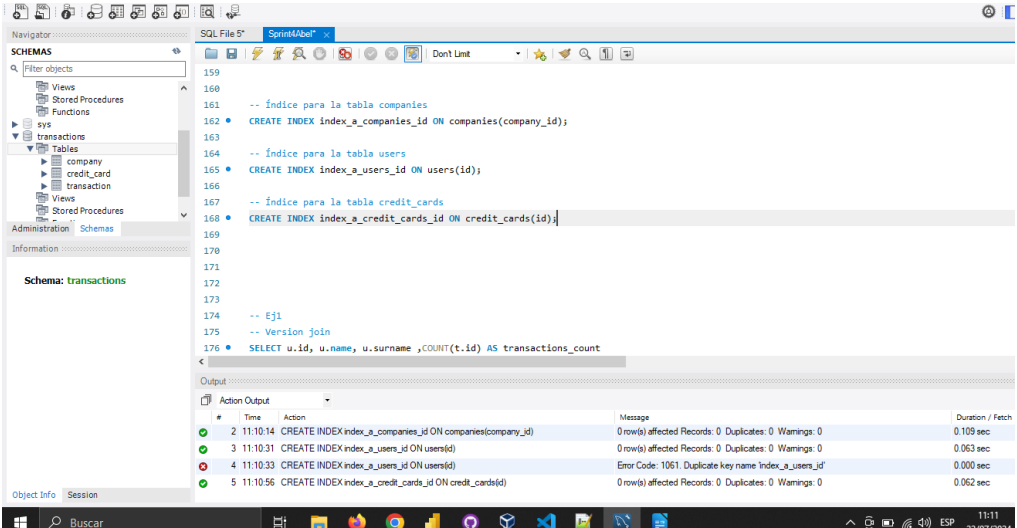
Time	Action	Message	Duration / %s
52 11:59:05	ALTER TABLE transactions ADD CONSTRAINT fk_transactions_card FOREIGN KE...	587 row(s) affected Records: 587 Duplicates: 0 Warnings: 0	0.109 sec
53 11:59:10	ALTER TABLE transactions ADD CONSTRAINT fk_transactions_company FOREIGN...	587 row(s) affected Records: 587 Duplicates: 0 Warnings: 0	0.110 sec
54 11:59:13	ALTER TABLE transactions ADD CONSTRAINT fk_transactions_user FOREIGN KE...	587 row(s) affected Records: 587 Duplicates: 0 Warnings: 0	0.141 sec

Creación de la índices para una mejora en la optimización de las búsquedas.

CREATE_INDEX nombre_como_referencia ON nombre_de_tabla(campo).

Se utiliza el índice para una mayor velocidad y optimización de las consultas.

Esquema



```

159
160
161 -- índice para la tabla companies
162 CREATE INDEX index_a_companies_id ON companies(company_id);
163
164 -- índice para la tabla users
165 CREATE INDEX index_a_users_id ON users(id);
166
167 -- índice para la tabla credit_cards
168 CREATE INDEX index_a_credit_cards_id ON credit_cards(id);
169
170
171
172
173
174 -- Ej1
175 -- Version join
176 SELECT u.id, u.name, u.surname, COUNT(t.id) AS transactions_count

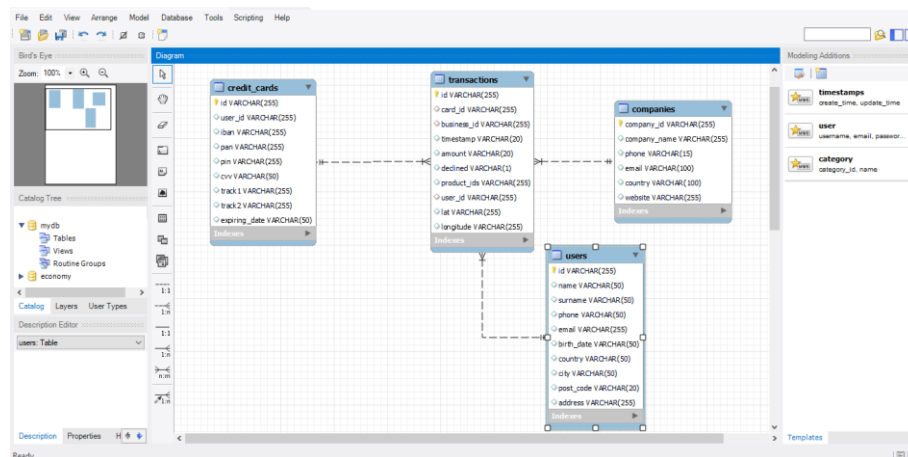
```

Output

#	Time	Action	Message	Duration / Fetch
2	11:10:14	CREATE INDEX index_a_companies_id ON companies(company_id)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.109 sec
3	11:10:31	CREATE INDEX index_a_users_id ON users(id)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.063 sec
4	11:10:33	CREATE INDEX index_a_credit_cards_id ON credit_cards(id)	Error Code: 1061. Duplicate key name 'index_a_users_id'	0.000 sec
5	11:10:56	CREATE INDEX index_a_credit_cards_id ON credit_cards(id)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.062 sec

tipo

estrella , con la tabla transactions es la tabla de hechos. Porque tiene un mayor numero de métricas. Además que es la tabla donde explica una historia de lo que esta pasando.



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

-Versión Join. Versión rápida para ver lo resultados finales y comparar. Ya que el ejercicio, entiendo que pide una subconsulta.

-Versión subconsulta

SPRINT 4

Abel

Decidi

hacer una

The screenshot shows the SQL Server Enterprise Manager interface. On the left, the 'SCHEMAS' pane shows the 'economy' database with various tables and views. The 'transacciones' table is selected. The main window displays a SQL query in the 'SQL File' window. The query is a version subquery that selects user information and transaction counts. The results are shown in the 'Results' window, displaying a table with columns 'id', 'name', 'surname', and 'transactions_count'. The results show four rows of data.

```

183
184
185 -- Version Subquery en el FROM
186 SELECT temporary_table.id, temporary_table.name, temporary_table.surname, temporary_table.transactions_count
187 FROM (
188     SELECT u.id, u.name, u.surname, COUNT(t.id) AS transactions_count
189     FROM users u
190     JOIN transactions t
191     ON u.id = t.user_id
192     GROUP BY u.id, u.name, u.surname
193 ) temporary_table
194 WHERE temporary_table.transactions_count > 30
195 ORDER BY temporary_table.transactions_count DESC;
196
197
198
199
200
201
202 -- Ej 2
203

```

id	name	surname	transactions_count
272	Hedwig	Gilbert	76
267	Ocean	Nelson	52
275	Kerion	Hartman	48
92	Lynn	Riddle	39

tabla temporal en el from. En la consulta interna con los campos necesarios, realice una join para unir las tablas users con las transactions, para ver las transacciones realizadas y contarlas. Sin hacer énfasis en el decline.

Para después en la consulta externa mostrar , filtrar los datos y ordenar (esto último no era necesario).

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

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```

181
182 -- Ej 2
183
184 SELECT cc.iban, c.company_name, ROUND(AVG(t.amount), 2) AS media
185 FROM credit_cards cc
186 JOIN transactions t
187 ON cc.id = t.card_id
188 JOIN companies c
189 ON t.business_id = c.company_id
190 WHERE c.company_name = 'Donec Ltd'
191 GROUP BY cc.iban, c.company_name;

```

iban	company_name	media
PT8780628135092429456346	Donec Ltd	203.72

SPRINT 4

Abel

Debido a las pocas operaciones decidí incluir todas las operaciones del campo decline, para mostrar el funcionamiento de AVG.