Level 1

Download the CSV files, study them and design a database with a star schema that contains at least 4 tables from which you can perform the following queries:

create database Customers;

```
1 •   create database Customers;
```

#	Time	Action	Message	Duration / Fetch
1	18:28:04	select p.product_name,sum(s.product_id)as total,s.id from SingleproductID as s inner join products as p...	251163 row(s) returned	6.469 sec / 0.234 se
2	10:02:59	drop database customers	8 row(s) affected	0.438 sec
3	10:03:16	create database Customers	1 row(s) affected	0.047 sec

-- Dimension table company creation

create table company

(

company_id varchar(15) primary key,

company_name varchar(55),

phone varchar(50),

email varchar(50),

country varchar(50),

website varchar(55)

);

SHOW VARIABLES LIKE 'secure_file_priv';

SET GLOBAL local_infile = 1;

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

INTO TABLE company

FIELDS TERMINATED BY ','

ENCLOSED BY ''''

LINES TERMINATED BY '\r\n'

IGNORE 1 ROWS;

```sql
SHOW VARIABLES LIKE 'secure_file_priv';

SET GLOBAL local_infile = 1;


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

Time	Action	Message	Duration / Fetch
10:05:37	create table company (company_id varchar(15) primary key, company_name varchar(55), phone va...	0 row(s) affected	0.047 sec
10:10:08	SHOW VARIABLES LIKE 'secure_file_priv'	1 row(s) returned	0.032 sec / 0.000
10:10:12	SET GLOBAL local_infile = 1	0 row(s) affected	0.000 sec
10:10:20	LOAD DATA LOCAL INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/companies.csv' ...	100 row(s) affected Records: 100 Deleted: 0 Skipped: 0 Warnings: 0	0.093 sec

select * from company;

```sql
select * from company;
```

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 Foundation	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

#	Time	Action	Message	Duration / Fetch
6	10:10:08	SHOW VARIABLES LIKE 'secure_file_priv'	1 row(s) returned	0.032 sec / 0.000 sec
7	10:10:12	SET GLOBAL local_infile = 1	0 row(s) affected	0.000 sec
8	10:10:20	LOAD DATA LOCAL INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/companies.csv' ...	100 row(s) affected Records: 100 Deleted: 0 Skipped: 0 Warnings: 0	0.093 sec
9	10:11:34	select * from company	100 row(s) returned	0.000 sec / 0.000 sec

-- Dimension table credit_card creation

create table creditcards

(

id varchar(55) primary key,

user_id int ,

iban varchar(55),

pan varchar(55),

pin int,

cvv int,

track1 varchar(55),

track2 varchar(55),

expiring_date varchar(20)

);

```
-- Dimension table credit_card creation
create table creditcards
(
id varchar(55) primary key,
user_id int ,
iban varchar(55),
pan varchar(55),
pin int,
cvv int,
track1 varchar(55),
track2 varchar(55),
expiring_date varchar(20)
);
```

Action Output

	Time	Action	Message	Duration / Fetch
7	10:10:12	SET GLOBAL local_infile = 1	0 row(s) affected	0.000 sec
8	10:10:20	LOAD DATA LOCAL INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/companies.csv' ...	100 row(s) affected Records: 100 Deleted: 0 Skipped: 0 Warnings: 0	0.093 sec
9	10:11:34	select * from company	100 row(s) returned	0.000 sec / 0.000 sec
10	10:13:49	create table creditcards (id varchar(55) primary key, user_id int , iban varchar(55), pan varchar(55), p...	0 row(s) affected	0.062 sec

LOAD DATA LOCAL INFILE 'C:/Users/sarav/Downloads/credit_cards.csv'

INTO TABLE creditcards

FIELDS TERMINATED BY ','

ENCLOSED BY '"'

LINES TERMINATED BY '\n'

IGNORE 1 ROWS;

```sql
LOAD DATA LOCAL INFILE 'C:/Users/sarav/Downloads/credit_cards.csv'
INTO TABLE creditcards
FIELDS TERMINATED BY ','
ENCLOSED BY '"'
LINES TERMINATED BY '\n'
IGNORE 1 ROWS;
```

	Time	Action	Message	Duration / F
8	10:10:20	LOAD DATA LOCAL INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/companies.csv' ...	100 row(s) affected Records: 100 Deleted: 0 Skipped: 0 Warnings: 0	0.093 sec
9	10:11:34	select * from company	100 row(s) returned	0.000 sec /
10	10:13:49	create table creditcards (id varchar(55) primary key, user_id int , iban varchar(55), pan varchar(55), p...	0 row(s) affected	0.062 sec
11	10:15:22	LOAD DATA LOCAL INFILE 'C:/Users/sarav/Downloads/credit_cards.csv' INTO TABLE creditcard...	5000 row(s) affected Records: 5000 Deleted: 0 Skipped: 0 Warnings: 0	0.297 sec

select * from creditcards;

```sql
select * from creditcards;
```

id	user_id	iban	pan	pin	cvv	track1	track2	expiring_date
857	276	XX4857591835292505850771	2314242385113924	1819	467	%B2314242385113924^LWCBUDLWCBUD^22...	%B2314242385113924=2410101518363164?	09/27/25
858	277	XX8581768137002436094025	6582720299715533	3964	817	%B6582720299715533^TIQMVITIQMVI^2404...	%B6582720299715533=2411101104546272?	12/28/28
859	278	XX7826930491423553609370	886168453628 9642	4983	277	%B8861684536289642^COFBGDCOFBGD^280...	%B8861684536289642=2502101761665371?	11/26/26
860	279	XX5559590368835304645299	2481155515498459	6876	661	%B2481155515498459^TIUJTUTIUJTU^31040...	%B2481155515498459=2602101514414395?	07/27/27
861	280	XX2035182877195191627307	1308930301149557	5710	398	%B1308930301149557^HPOBNZHPOBNZ^330...	%B1308930301149557=2805101751305028?	04/25/26
862	281	XX4774721462463645409758	6715617009807829	4042	174	%B6715617009807829^LDMWTDLDMWTD^33...	%B6715617009807829=2210101702370428?	11/27/26

Time	Action	Message	Duration / Fetch
10:11:34	select * from company	100 row(s) returned	0.000 sec / 0.000 sec
10:13:49	create table creditcards (id varchar(55) primary key, user_id int , iban varchar(55), pan varchar(55), p...	0 row(s) affected	0.062 sec
10:15:22	LOAD DATA LOCAL INFILE 'C:/Users/sarav/Downloads/credit_cards.csv' INTO TABLE creditcard...	5000 row(s) affected Records: 5000 Deleted: 0 Skipped: 0 Warnings: 0	0.297 sec
10:16:39	select * from creditcards	5000 row(s) returned	0.000 sec / 0.015 sec

```
-- Dimension table user  creation

create table user

(

id int primary key,

name varchar(55),

surname varchar(55),

phone varchar(35),

email varchar(55),

birth_date varchar(50),

country varchar(50),

city varchar(50),

postal_code varchar(50),

address varchar(50)

);
```

```
-- Dimension table user  creation
create table user
(
id int primary key,
name varchar(55),
surname varchar(55),
phone varchar(35),
email varchar(55),
birth_date varchar(50),
country varchar(50),
city varchar(50),
postal_code varchar(50),
address varchar(50)
);
```

Time	Action	Message	Duration / Fetch
10:13:49	create table creditcards (id varchar(55) primary key, user_id int , iban varchar(55), pan varchar(55), p...	0 row(s) affected	0.062 sec
10:15:22	LOAD DATA LOCAL INFILE 'C:/Users/sarav/Downloads/credit_cards.csv' INTO TABLE creditcard...	5000 row(s) affected Records: 5000 Deleted: 0 Skipped: 0 Warnings: 0	0.297 sec
10:16:39	select * from creditcards	5000 row(s) returned	0.000 sec / 0.015 sec
10:18:18	create table user (id int primary key, name varchar(55), surname varchar(55), phone varchar(35), em...	0 row(s) affected	0.062 sec

```
LOAD DATA LOCAL INFILE 'C:/Users/sarav/Downloads/american_users.csv'

INTO TABLE user

FIELDS TERMINATED BY ','

ENCLOSED BY '"'

LINES TERMINATED BY '\n'

IGNORE 1 ROWS;
```



```
LOAD DATA LOCAL INFILE 'C:/Users/sarav/Downloads/european_users.csv'

INTO TABLE user

FIELDS TERMINATED BY ','

ENCLOSED BY '"'

LINES TERMINATED BY '\n'

IGNORE 1 ROWS;
```

```
LOAD DATA LOCAL INFILE 'C:/Users/sarav/Downloads/european_users.csv'
INTO TABLE user
FIELDS TERMINATED BY ','
ENCLOSED BY '"'
LINES TERMINATED BY '\n'
IGNORE 1 ROWS;
```

	Time	Action	Message	Duration / Fetch
12	10:16:39	select * from creditcards	5000 row(s) returned	0.000 sec / 0.015 sec
13	10:18:18	create table user (id int primary key, name varchar(55), surname varchar(55), phone varchar(35), em...	0 row(s) affected	0.062 sec
14	10:19:41	LOAD DATA LOCAL INFILE 'C:/Users/sarav/Downloads/american_users.csv' INTO TABLE user FI...	1010 row(s) affected Records: 1010 Deleted: 0 Skipped: 0 Warnings: 0	0.141 sec
15	10:20:56	LOAD DATA LOCAL INFILE 'C:/Users/sarav/Downloads/european_users.csv' INTO TABLE user FI...	3990 row(s) affected Records: 3990 Deleted: 0 Skipped: 0 Warnings: 0	0.218 sec

select * from user;

```
select * from user;
```

name	surname	phone	email	birth_date	country	city	postal_code	address
Zeus	Gamble	1-282-581-0551	interdum.enim@protonmail.edu	Nov 17, 1985	United States	New York	10001	348-7818 Sagittis St.
Garrett	Mcconnell	(718) 257-2412	integer.vitae.nibh@protonmail.org	Aug 23, 19 Nov 17, 1985 tes	Philadelphia	19101	903 Sit Ave
Ciaran	Harrison	(522) 598-1365	interdum.feugiat@aol.org	Apr 29, 1998	United States	Houston	77001	736-2063 Tellus St.
Howard	Stafford	1-411-740-3269	ornare.egestas@icloud.edu	Feb 18, 1989	United States	Phoenix	85001	Ap #545-2244 Erat. Rd.
Hayfa	Pierce	1-554-541-2077	et.malesuada.fames@hotmail.org	Sep 26, 1998	United States	Philadelphia	19101	341-2821 Ultrices Av.
Joel	Tyson	(718) 288-8020	gravida.nunc.sed@yahoo.ca	Oct 15, 1989	United States	San Jose	95101	888-2799 Amet Street

Time	Action	Message	Duration / Fetch
10:18:18	create table user (id int primary key, name varchar(55), surname varchar(55), phone varchar(35), em...	0 row(s) affected	0.062 sec
10:19:41	LOAD DATA LOCAL INFILE 'C:/Users/sarav/Downloads/american_users.csv' INTO TABLE user FI...	1010 row(s) affected Records: 1010 Deleted: 0 Skipped: 0 Warnings: 0	0.141 sec
10:20:56	LOAD DATA LOCAL INFILE 'C:/Users/sarav/Downloads/european_users.csv' INTO TABLE user FI...	3990 row(s) affected Records: 3990 Deleted: 0 Skipped: 0 Warnings: 0	0.218 sec
10:21:59	select * from user	5000 row(s) returned	0.000 sec / 0.032 sec

-- create table transaction

create table transaction

(

id varchar(50) primary key,

card_id varchar(55),

business_id varchar(50) ,

tiempstamp timestamp,

amount decimal(10,2),

declined boolean,

product_id varchar(55),

user_id int,

lat float,

longtitude float,

foreign key (business_id) references company(company_id),

foreign key (card_id) references creditcards(id),

foreign key(user_id) references user(id)

);

```
9
0
1      -- create table transaction
2 •    create table transaction
3    ⊖ (
4      id varchar(50) primary key,
5      card_id varchar(55),
6      business_id varchar(50) ,
7      tiempstamp timestamp,
8      amount decimal(10,2),
9      declined boolean,
0      product_id varchar(55),
1      user_id int,
2      lat float,
3      longtitude float,
4      foreign key (business_id) references company(company_id),
5      foreign key ( card_id) references creditcards(id),
6      foreign key(user_id) references user(id)
7    );
8
9
0
1
```

put

Action Output

#	Time	Action	Message	Duration / Fetch
14	10:19:41	LOAD DATA LOCAL INFILE 'C:/Users/sarav/Downloads/american_users.csv' INTO TABLE user FI...	1010 row(s) affected Records: 1010 Deleted: 0 Skipped: 0 Warnings: 0	0.141 sec
15	10:20:56	LOAD DATA LOCAL INFILE 'C:/Users/sarav/Downloads/european_users.csv' INTO TABLE user FI...	3990 row(s) affected Records: 3990 Deleted: 0 Skipped: 0 Warnings: 0	0.218 sec
16	10:21:59	select * from user	5000 row(s) returned	0.000 sec / 0.032 sec
17	10:23:58	create table transaction (id varchar(50) primary key, card_id varchar(55), business_id varchar(50) , ti...	0 row(s) affected	0.125 sec

LOAD DATA LOCAL INFILE 'C:/Users/sarav/Downloads/transactions.csv'

INTO TABLE transaction

FIELDS TERMINATED BY ';'

ENCLOSED BY '"'

LINES TERMINATED BY '\r\n'

IGNORE 1 ROWS;

```
LOAD DATA LOCAL INFILE 'C:/Users/sarav/Downloads/transactions.csv'
INTO TABLE transaction
FIELDS TERMINATED BY ';'
ENCLOSED BY '"'
LINES TERMINATED BY '\r\n'
IGNORE 1 ROWS;
```

 action Output ▾

	Time	Action	Message	Duration / Fetch
15	10:20:56	LOAD DATA LOCAL INFILE 'C:/Users/sarav/Downloads/european_users.csv' INTO TABLE user Fl...	3990 row(s) affected Records: 3990 Deleted: 0 Skipped: 0 Warnings: 0	0.218 sec
16	10:21:59	select * from user	5000 row(s) returned	0.000 sec / 0.032 sec
17	10:23:58	create table transaction (id varchar(50) primary key, card_id varchar(55), business_id varchar(50) , ti...	0 row(s) affected	0.125 sec
18	10:24:59	LOAD DATA LOCAL INFILE 'C:/Users/sarav/Downloads/transactions.csv' INTO TABLE transactio...		8.656 sec

select * from transaction;

Exercise 1

Perform a subquery that shows all users with more than 80 transactions using at least 2 tables.

-- Exercise 1

-- Perform a subquery that shows all users with more than 80 transactions using at least 2 tables.

select *

from user where id in(

 select user_id

 from transaction

 where declined =0

 group by user_id

 having count(id)>80);

```
123 •    select *
124   ⊖ from user where id in(
125        select user_id
126        from transaction
127        where declined =0
128        group by user_id
129        having count(id)>80);
```

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

id	name	surname	phone	email	birth_date	country	city	postal_code	address
185	Molly	Gilliam	0800 120 8023	donec@outlook.couk	Dec 21, 1993	United Kingdom	London	EC1A 1BB	P.O. Box 202, 5638 Mi Rd.
289	Dxwgi	Hwcru	+98-309-8797	dxwgi.hwcru@example.com	Aug 20, 1976	Germany	Stuttgart	70173	82 Hwcru Street
318	Bnyr	Astuw	+33-120-9644	bnyr.astuw@example.com	May 3, 1974	Italy	Genoa	16100	53 Astuw Street
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

ser 17 ×   Apply

utput

Action Output ▾

#	Time	Action	Message	Duration / Fetch
39	11:27:46	select p.product_name,sum(s.product_id)as total,s.id from SingleproductID as s inner join product...	251163 row(s) returned	5.828 sec / 0.219 sec
40	11:45:01	select *from user where id in(select user_id from transaction where declined =0 group by user_id ...	3 row(s) returned	0.953 sec / 0.000 sec
41	11:47:06	select *from user where id in(select user_id from transaction where declined =0 group by user_id ...	3 row(s) returned	0.500 sec / 0.000 sec
42	11:48:03	select *from user where id in(select user_id from transaction where declined =0 group by user_id ...	3 row(s) returned	0.516 sec / 0.000 sec

Exercise 2

Shows the average amount per IBAN of credit cards in the company Donec Ltd, uses at least 2 tables.

-- Exercise 2

-- Shows the average amount per IBAN of credit cards in the company Donec Ltd, uses at least 2 tables.

select c.company_name,

cre.iban,

round(avg(t.amount),2) as Average_amount

from transaction t

inner join company c on t.business_id = c.company_id

inner join creditcards cre on t.card_id = cre.id

where

c.company_name like 'Donec Ltd' and

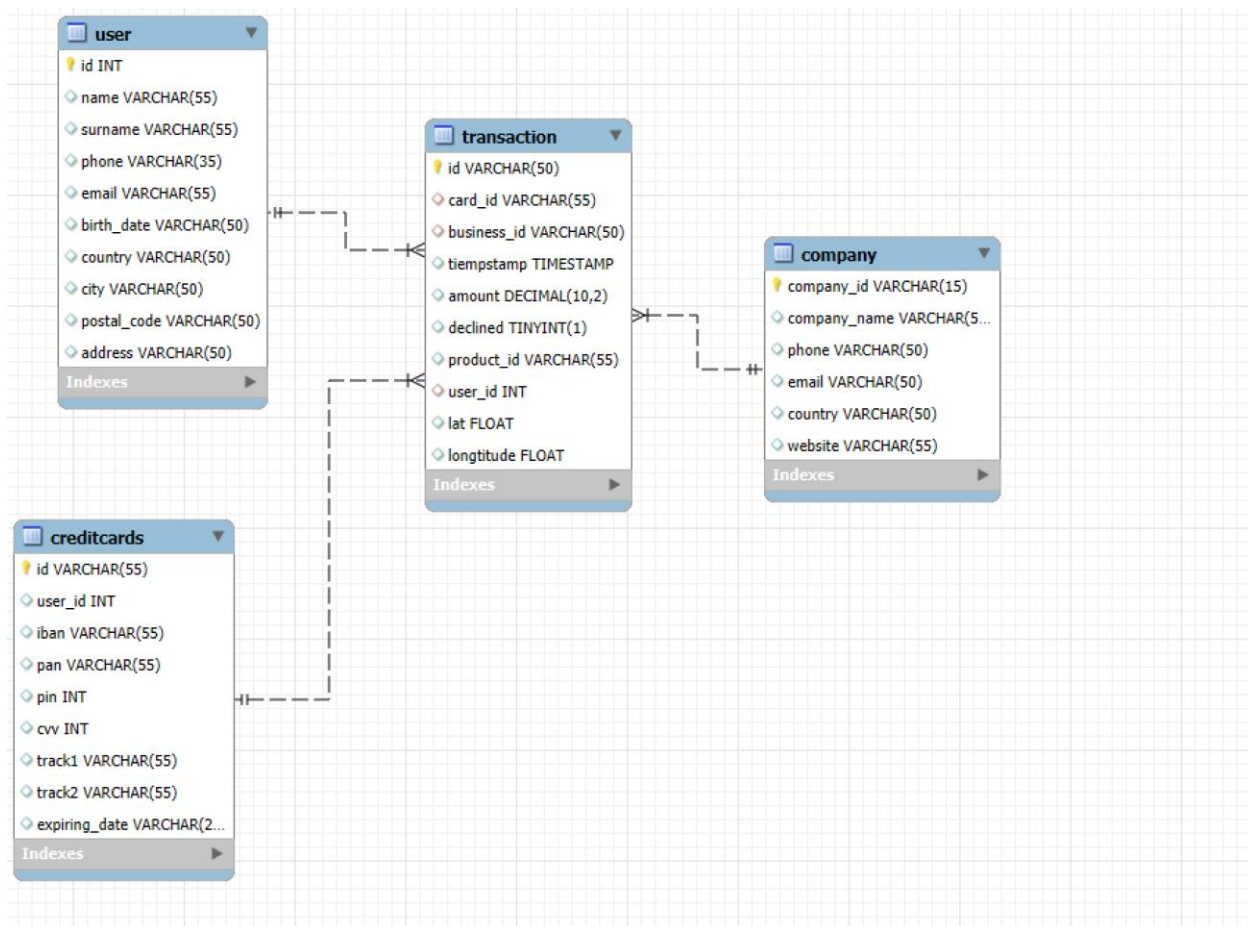t.declined = 0

group by c.company_name,cre.iban;

```
130
131    -- Exercise 2
132    -- Shows the average amount per IBAN of credit cards in the company Donec Ltd, uses at least 2 tables.
133
134 •  select c.company_name,
135    cre.iban,
136    round(avg(t.amount),2) as Average_amount
137    from transaction t
138    inner join company c on t.business_id = c.company_id
139    inner join creditcards cre on t.card_id = cre.id
140    where
141    c.company_name like 'Donec Ltd' and
142    t.declined = 0
143    group by c.company_name,cre.iban;
144
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: $\overline{IA}$

company_name	iban	Average_amount
Donec Ltd	XX91140640112558630758805	356.25
Donec Ltd	SK9446370242474562577506	142.96
Donec Ltd	XX77675291784595297555640	257.37
Donec Ltd	XX41382736228971930490890	139.59
Donec Ltd	XX34778724607076910780308	240.41
Donec Ltd	XX68876843654309089485602	188.58

Result 8 ×

Output

Action Output ▾

#	Time	Action	Message	Duration / Fetch
✓	21	10:27:53	select * from transaction	100000 row(s) returned	0.016 sec / 0.375 sec
✓	22	10:30:17	select * from user where id in(select user_id from transaction where declined =0 group by user_id ...	3 row(s) returned	0.734 sec / 0.000 sec
✓	23	10:32:42	select c.company_name, cre.iban, round(avg(t.amount),2) as Average_amount from transaction t in...	370 row(s) returned	0.000 sec / 0.000 sec
✓	24	10:33:25	select c.company_name, cre.iban, round(avg(t.amount),2) as Average_amount from transaction t in...	370 row(s) returned	0.016 sec / 0.000 sec

-- Level 2

-- Create a new table that reflects the status of credit cards based on

-- whether the last three transactions were declined and generate the following query:

```
create table creditcard_status as

select

t.card_id,

case

when sum(t. declined) = 3 then 'no active'
```

else 'active'

end as status

from(

select

card_id,

declined,

row_number() over(partition by card_id order by tiempstamp desc) as rownumber

 from transaction

)t

where t.rownumber<=3

group by t.card_id;

```
-- Level 2
-- Create a new table that reflects the status of credit cards based on
-- whether the last three transactions were declined and generate the following query:
create table creditcard_status as
select
t.card_id,
case
when sum(t. declined) = 3 then 'no active'
else 'active'
end as status
from(
select
card_id,
declined,
row_number() over( partition by card_id order by tiempstamp desc) as rownumber
 from transaction
 )t
where t.rownumber<=3
group by t.card_id;

select * from creditcard_status;
```

Time	Action	Message	Duration / Fetch
10:30:17	select * from user where id in(select user_id from transaction where declined =0 group by user_id ...	3 row(s) returned	0.734 sec / 0.000 sec
10:32:42	select c.company_name, cre.iban, round(avg(t.amount),2) as Average_amount from transaction t in...	370 row(s) returned	0.000 sec / 0.000 sec
10:33:25	select c.company_name, cre.iban, round(avg(t.amount),2) as Average_amount from transaction t in...	370 row(s) returned	0.016 sec / 0.000 sec
10:39:14	create table creditcard_status as select t.card_id, case when sum(t. declined) = 3 then 'no active' el...	5000 row(s) affected Records: 5000 Duplicates: 0 Warnings: 0	0.953 sec

alter table creditcard_status

add constraint fk_creditcard_status

foreign key(card_id) references creditcards(id);

```
alter table creditcard_status
add constraint fk_creditcard_status
foreign key(card_id) references creditcards(id);
|
```

Time	Action	Message	Duration / Fetch
11:59:41	select count(card_id) from creditcard_status where status = 'active'	1 row(s) returned	0.016 sec / 0.000 sec
12:00:15	select count(card_id) from creditcard_status where status = 'active'	select count(card_id) from creditcard_status where status = 'active'	0.031 sec / 0.000 sec
12:05:11	select * from creditcard_status		0.015 sec / 0.016 sec
12:10:00	alter table creditcard_status add constraint fk_creditcard_status foreign key(card_id) references crea...	5000 row(s) affected Records: 5000 Duplicates: 0 Warnings: 0	0.313 sec

select * from creditcard_status;

```
169
170 •    select * from creditcard_status;
171
172
```

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

card_id	status
CcS-4857	active
CcS-4858	active
CcS-4859	active
CcS-4860	active
CcS-4861	active
CcS-4862	active

creditcard_status 25 ×

Action Output

#	Time	Action	Message	Duration / Fetch
49	12:05:11	select * from creditcard_status	5000 row(s) returned	0.015 sec / 0.016 sec
50	12:10:00	alter table creditcard_status add constraint fk_creditcard_status foreign key(card_id) references credi...	5000 row(s) affected Records: 5000 Duplicates: 0 Warnings: 0	0.313 sec
51	12:12:53	select count(card_id) from creditcard_status where status = 'active'	1 row(s) returned	0.000 sec / 0.000 sec
52	12:15:46	select * from creditcard_status	5000 row(s) returned	0.015 sec / 0.000 sec

Exercise 1

How many cards are active?

select count(card_id) as activecards

from creditcard_status

where status = 'active';

```
175
176     -- Exercise 1
177     -- How many cards are active?
178
179 •   select count(card_id) as activecards
180     from creditcard_status
181     where status = 'active';
182
183
```
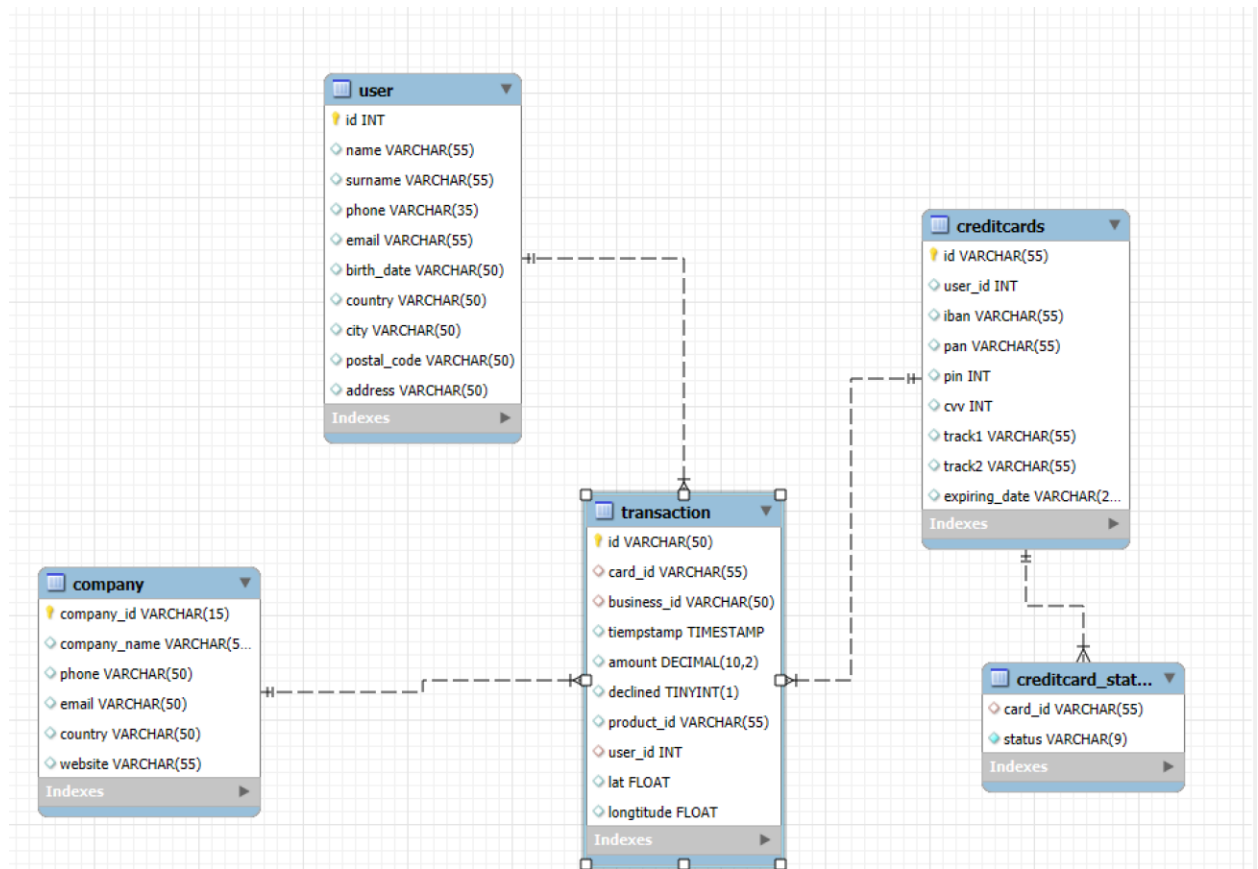
Level 3

Create a table with which we can join the data from the new products.csv file with the created database, taking into account that from transaction you have product_ids. Generate the following query:

create table products

(

id varchar(20) primary key,

product_name varchar(40),

price varchar(20),

colour varchar(20),

weight float,

warehouse_id varchar(30)

);

```
create table products
(
    id varchar(20) primary key,
    product_name varchar(40),
    price varchar(20),
    colour varchar(20),
    weight float,
    warehouse_id varchar(30)
);
```

Action Output

	Time	Action	Message	Duration / Fetch
25	10:39:14	create table creditcard_status as select t.card_id, case when sum(t. declined) = 3 then 'no active' el...	5000 row(s) affected Records: 5000 Duplicates: 0 Warnings: 0	0.953 sec
26	10:40:05	select * from creditcard_status	5000 row(s) returned	0.000 sec / 0.000 sec
27	10:40:24	select card_id from creditcard_status where status = 'active'	4995 row(s) returned	0.016 sec / 0.015 sec
28	10:45:13	create table products (id varchar(20) primary key, product_name varchar(40), price varchar(20), colo...	0 row(s) affected	0.062 sec

LOAD DATA LOCAL INFILE 'C:/Users/sarav/Downloads/products.csv'

INTO TABLE products

FIELDS TERMINATED BY ','

ENCLOSED BY '"'

LINES TERMINATED BY '\n'

IGNORE 1 ROWS;

```
LOAD DATA LOCAL INFILE 'C:/Users/sarav/Downloads/products.csv'
INTO TABLE products
FIELDS TERMINATED BY ','
ENCLOSED BY '"'
LINES TERMINATED BY '\n'
IGNORE 1 ROWS;
```

Output ▼

ime	Action	Message	Duration / Fetch
):40:05	select * from creditcard_status	5000 row(s) returned	0.000 sec / 0.000 sec
):40:24	select card_id from creditcard_status where status = 'active'	4995 row(s) returned	0.016 sec / 0.015 sec
):45:13	create table products (id varchar(20) primary key, product_name varchar(40), price varchar(20), colo...	0 row(s) affected	0.062 sec
):46:24	LOAD DATA LOCAL INFILE 'C:/Users/sarav/Downloads/products.csv' INTO TABLE products FIEL...	100 row(s) affected Records: 100 Deleted: 0 Skipped: 0 Warnings: 0	0.062 sec

select * from products;

```
select * from products;
```

irid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: 𝐼A

product_name	price	colour	weight	warehouse_id
Direwolf Stannis	$161.11	#7c7c7c	1	WH-4
Karstark Dorne	$119.52	#f4f4f4	2.4	WH--5
south duel	$40.43	#6d6d6d	3	WH--95
Karstark Dorne	$49.70	#141414	2.7	WH--6
duel Direwolf	$181.60	#a8a8a8	2 2.7	WH--7
palpatine chewbacca	$139.59	#2b2b2b	1	WH--8

; 11 ×

Result Grid

Form Editor

Apply

on Output ▼

Time	Action	Message	Duration / Fetch
7 10:40:24	select card_id from creditcard_status where status = 'active'	4995 row(s) returned	0.016 sec / 0.015 sec
3 10:45:13	create table products (id varchar(20) primary key, product_name varchar(40), price varchar(20), colo...	0 row(s) affected	0.062 sec
3 10:46:24	LOAD DATA LOCAL INFILE 'C:/Users/sarav/Downloads/products.csv' INTO TABLE products FIEL...	100 row(s) affected Records: 100 Deleted: 0 Skipped: 0 Warnings: 0	0.062 sec
) 10:47:14	select * from products	100 row(s) returned	0.015 sec / 0.000 sec

create table SingleproductID as

select

   id,

```
jt.product_id

from

transaction,

json_table(

 concat( '[', product_id,']'),

'$[*]' columns(

    product_id int path '$'

    )


    )as jt;
```


select * from SingleproductID;

```sql
select * from SingleproductID;
```



```sql
select * from SingleproductID;


    alter table SingleproductID

     modify column product_id varchar(10);


    alter table SingleproductID

    add constraint fk_product_id

    foreign key(product_id) references products(id);
```



```sql
alter table SingleproductID
```

add constraint fk_id2

 foreign key(id) references transaction(id);

```
alter table SingleproductID
add constraint fk_id2
foreign key(id) references transaction(id);
```

e	Action		Message	Duration / Fetch
14:14	select * from SingleproductID		253391 row(s) returned	0.000 sec / 0.437 sec
14:36	alter table SingleproductID	modify column product_id varchar(10)	253391 row(s) affected Records: 253391 Duplicates: 0 Warnings: 0	2.125 sec
14:47	alter table SingleproductID	add constraint fk_product_id foreign key(product_id) reference...	253391 row(s) affected Records: 253391 Duplicates: 0 Warnings: 0	4.063 sec
22:25	alter table SingleproductID add constraint fk_id2 foreign key(id) references transaction(id)		253391 row(s) affected Records: 253391 Duplicates: 0 Warnings: 0	6.516 sec
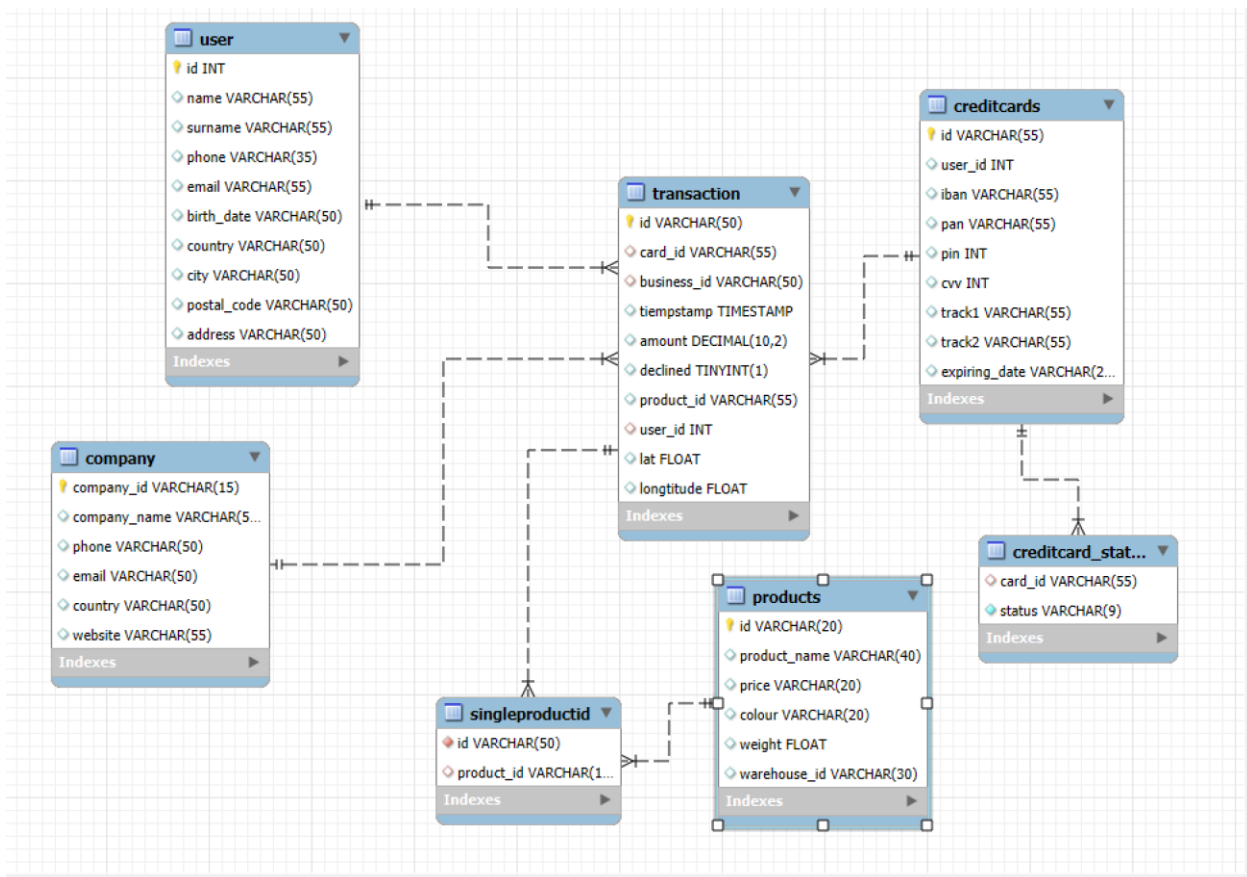
select p.product_name,count(s.product_id)as total,s.product_id

   from SingleproductID as s

   inner join products as p on p.id= s.product_id

   group by p.product_name,s.product_id

   order by total DESC;

```
238 •      select p.product_name,count(s.product_id)as total,s.product_id
239        from SingleproductID as s
240        inner join products as p on p.id= s.product_id
241        group by p.product_name,s.product_id
242        order by total DESC;
243
244
245
246
247
```

product_name	total	product_id
riverlands the duel	2654	52
Tully maester Tarly	2635	29
duel Direwolf	2609	21
the duel warden	2608	16
mustafar jinn	2601	66
sith Jade	2598	87
rock Renly in	2597	48

Result 33 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓	60 12:38:30	select p.product_name,count(s.product_id)as total,s.product_id from SingleproductID as s inner j...	100 row(s) returned	0.703 sec / 0.000 se
✓	61 12:38:48	select p.product_name,count(s.product_id)as total,s.product_id from SingleproductID as s inner j...	100 row(s) returned	0.859 sec / 0.000 se