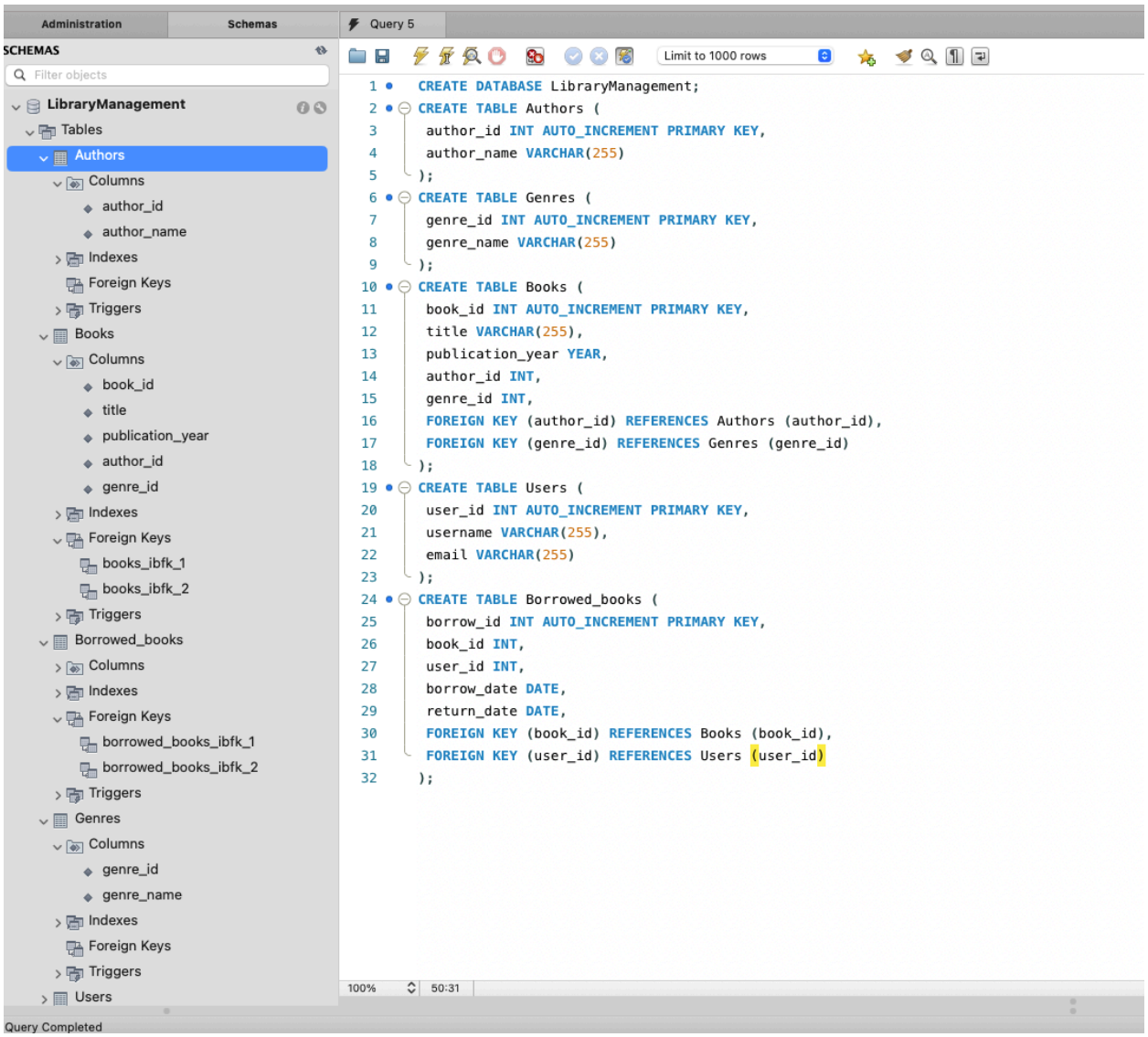
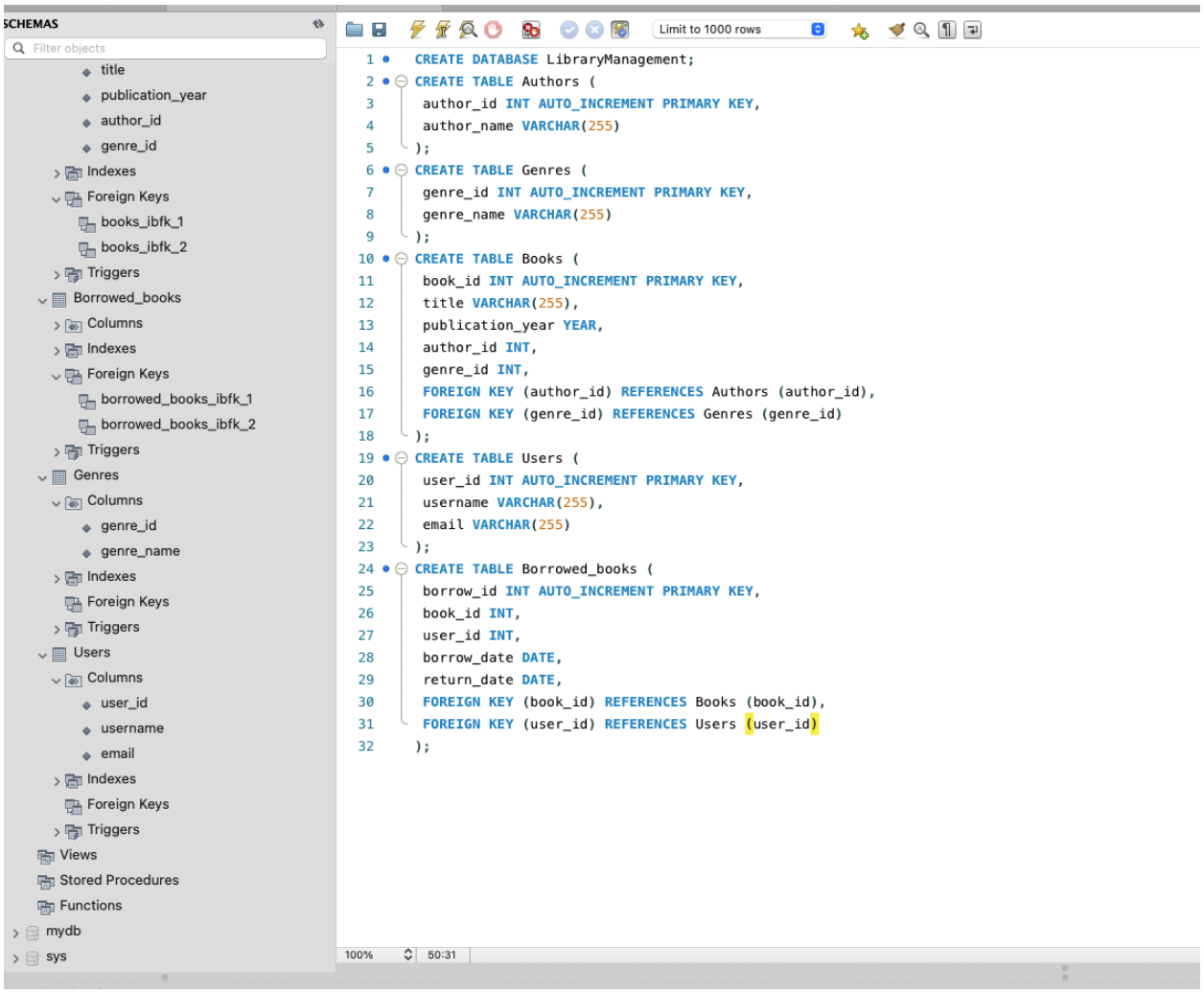
1.


Administration
Schemas
Query 5
SCHEMAS
Filter objects
LibraryManagement
Tables
Authors
Columns
author_id
author_name
Indexes
Foreign Keys
Triggers
Books
Columns
book_id
title
publication_year
author_id
genre_id
Indexes
Foreign Keys
books_ibfk_1
books_ibfk_2
Triggers
Borrowed_books
Columns
Indexes
Foreign Keys
borrowed_books_ibfk_1
borrowed_books_ibfk_2
Triggers
Genres
Columns
genre_id
genre_name
Indexes
Foreign Keys
Triggers
Users
Limit to 1000 rows
1 CREATE DATABASE LibraryManagement;
2 CREATE TABLE Authors (
3 author_id INT AUTO_INCREMENT PRIMARY KEY,
4 author_name VARCHAR(255)
5);
6 CREATE TABLE Genres (
7 genre_id INT AUTO_INCREMENT PRIMARY KEY,
8 genre_name VARCHAR(255)
9);
10 CREATE TABLE Books (
11 book_id INT AUTO_INCREMENT PRIMARY KEY,
12 title VARCHAR(255),
13 publication_year YEAR,
14 author_id INT,
15 genre_id INT,
16 FOREIGN KEY (author_id) REFERENCES Authors (author_id),
17 FOREIGN KEY (genre_id) REFERENCES Genres (genre_id)
18);
19 CREATE TABLE Users (
20 user_id INT AUTO_INCREMENT PRIMARY KEY,
21 username VARCHAR(255),
22 email VARCHAR(255)
23);
24 CREATE TABLE Borrowed_books (
25 borrow_id INT AUTO_INCREMENT PRIMARY KEY,
26 book_id INT,
27 user_id INT,
28 borrow_date DATE,
29 return_date DATE,
30 FOREIGN KEY (book_id) REFERENCES Books (book_id),
31 FOREIGN KEY (user_id) REFERENCES Users (user_id)
32);
100%
50:31
Query Completed




```
CREATE DATABASE LibraryManagement;
CREATE TABLE Authors (
 author_id INT AUTO_INCREMENT PRIMARY KEY,
 author_name VARCHAR(255)
);
CREATE TABLE Genres (
 genre_id INT AUTO_INCREMENT PRIMARY KEY,
 genre_name VARCHAR(255)
);
CREATE TABLE Books (
 book_id INT AUTO_INCREMENT PRIMARY KEY,
 title VARCHAR(255),
 publication_year YEAR,
 author_id INT,
```

```
 genre_id INT,
 FOREIGN KEY (author_id) REFERENCES Authors (author_id),
 FOREIGN KEY (genre_id) REFERENCES Genres (genre_id)
);
CREATE TABLE Users (
 user_id INT AUTO_INCREMENT PRIMARY KEY,
 username VARCHAR(255),
 email VARCHAR(255)
);
CREATE TABLE Borrowed_books (
 borrow_id INT AUTO_INCREMENT PRIMARY KEY,
 book_id INT,
 user_id INT,
 borrow_date DATE,
 return_date DATE,
 FOREIGN KEY (book_id) REFERENCES Books (book_id),
 FOREIGN KEY (user_id) REFERENCES Users (user_id)
);
```

2.

Table Author

```
INSERT INTO authors (author_id, author_name) VALUES
(1, 'Dick Allen'),
(2, 'Thomas Aquinas');
```

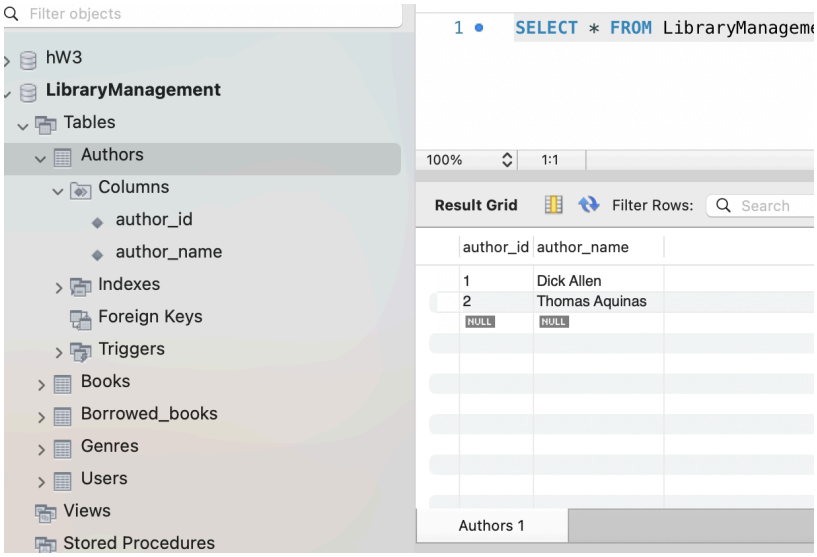


Table Genres

INSERT INTO Genres (genre_id, genre_name) VALUES

(1, 'male'),

(2, 'female');

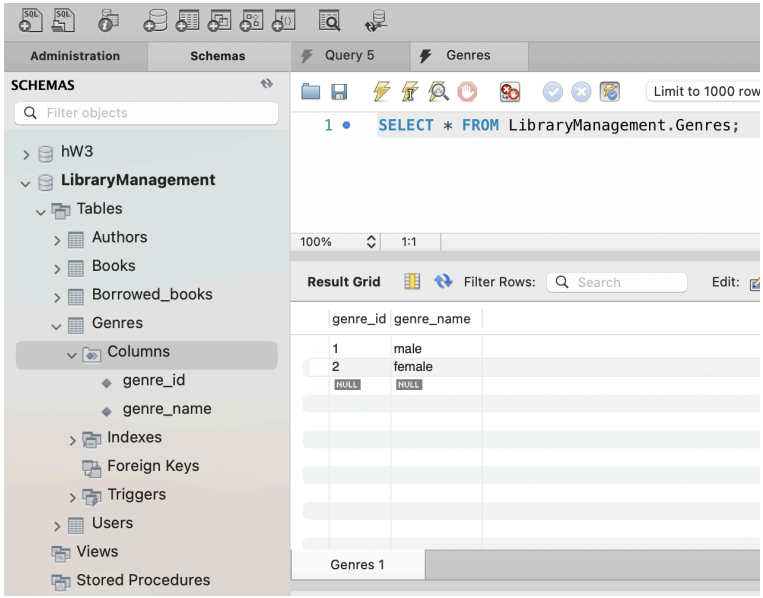


Table Books

INSERT INTO Books (book_id, title, publication_year, author_id, genre_id) VALUES

(1, 'Defoes Britain', 2010, 2, 1),

(2, 'Tale of a Criminal Mind Gone Good', 2012, 1, 1);

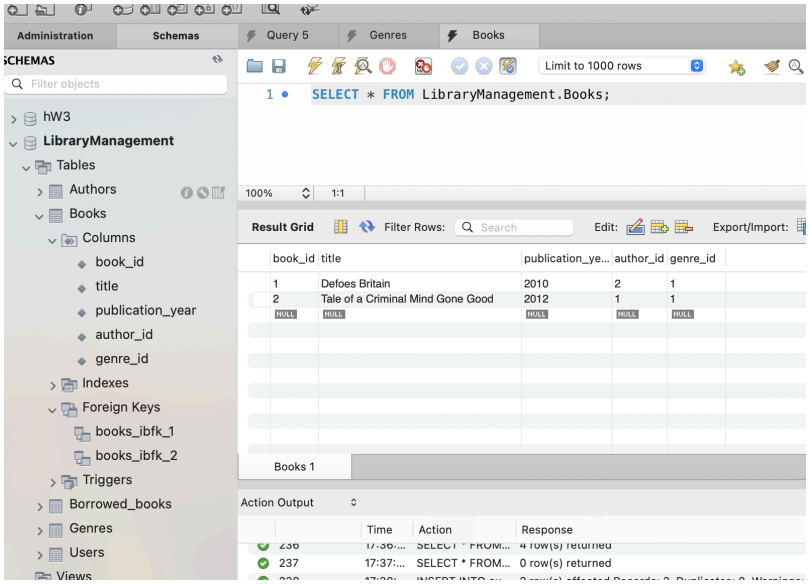


Table Users

INSERT INTO Users (user_id, username, email) VALUES

(1, 'Ketrin', 'ktihonova@gmail.com'),

(2, 'Olga', 'olyalya@gmail.com');

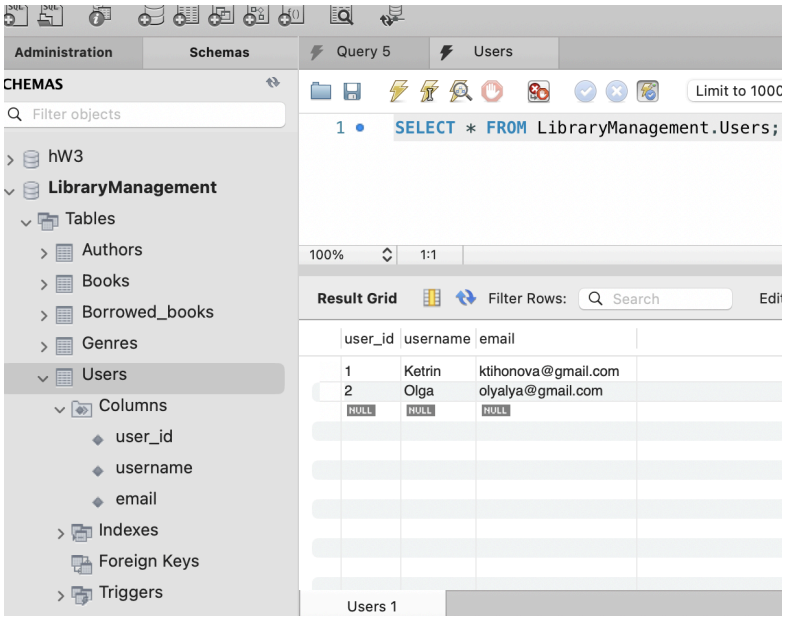


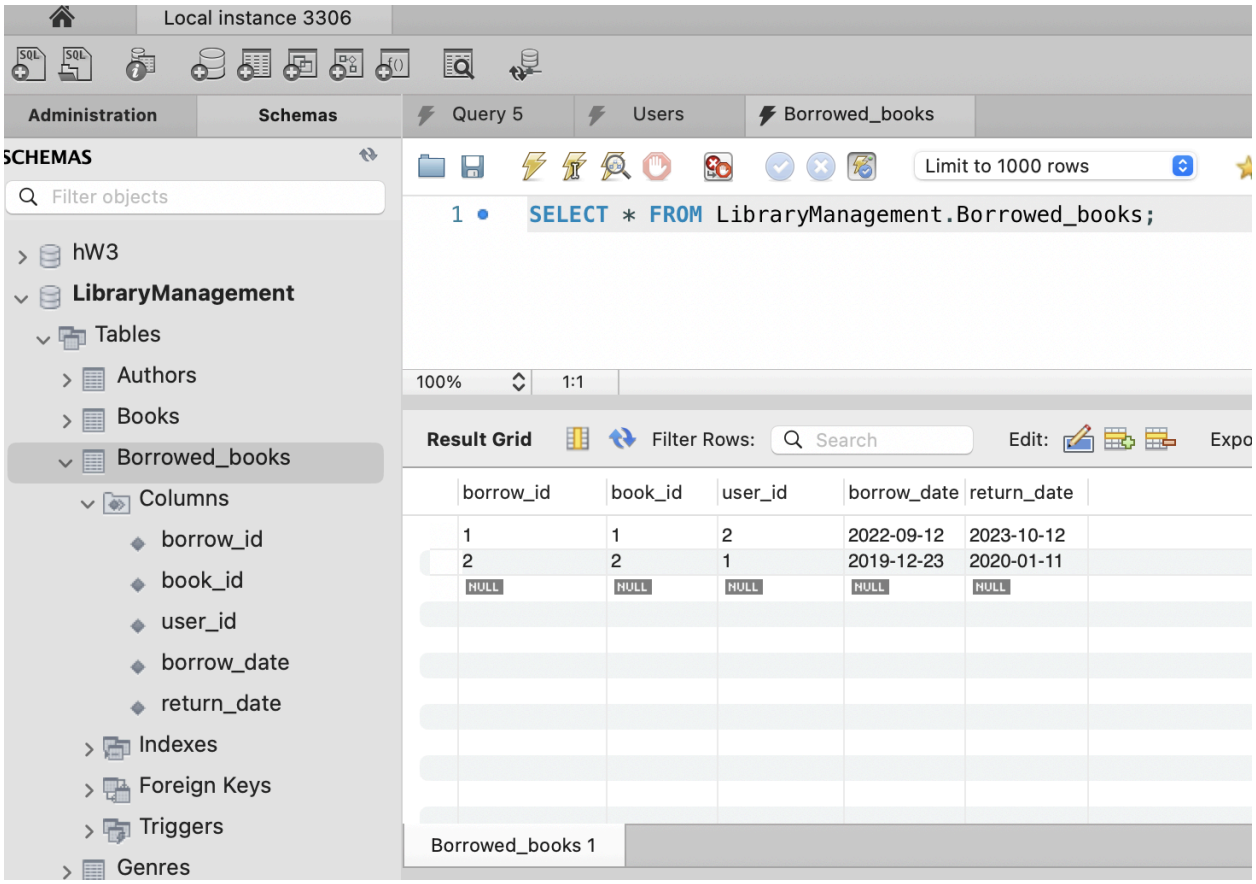
Table Borrowed_books

INSERT INTO Borrowed_books (borrow_id, book_id, user_id, borrow_date, return_date)

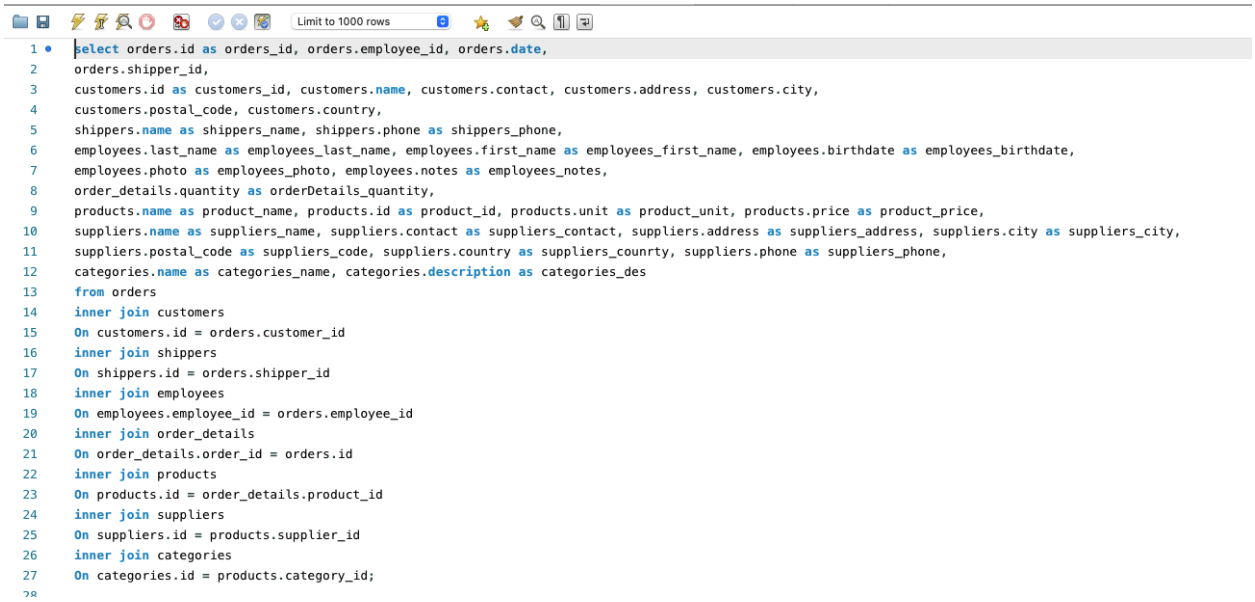
VALUES

(1, 1, 2, '2022-09-12', '2023-10-12'),

(2, 2, 1, '2019-12-23', '2020-01-11');



3.



```
select orders.id as orders_id, orders.employee_id, orders.date,
orders.shipper_id,
customers.id as customers_id, customers.name, customers.contact, customers.address, customers.city,
customers.postal_code, customers.country,
shippers.name as shippers_name, shippers.phone as shippers_phone,
employees.last_name as employees_last_name, employees.first_name as employees_first_name, employees.birthdate as employees_birthdate,
employees.photo as employees_photo, employees.notes as employees_notes,
order_details.quantity as orderDetails_quantity,
products.name as product_name, products.id as product_id, products.unit as product_unit, products.price as product_price,
suppliers.name as suppliers_name, suppliers.contact as suppliers_contact, suppliers.address as suppliers_address, suppliers.city as suppliers_city,
suppliers.postal_code as suppliers_code, suppliers.country as suppliers_counrty, suppliers.phone as suppliers_phone,
categories.name as categories_name, categories.description as categories_des
from orders
inner join customers
On customers.id = orders.customer_id
inner join shippers
On shippers.id = orders.shipper_id
inner join employees
On employees.employee_id = orders.employee_id
inner join order_details
On order_details.order_id = orders.id
inner join products
On products.id = order_details.product_id
inner join suppliers
On suppliers.id = products.supplier_id
inner join categories
On categories.id = products.category_id;
```

select orders.id as orders_id, orders.employee_id, orders.date,
orders.shipper_id,
customers.id as customers_id, customers.name, customers.contact, customers.address,
customers.city,
customers.postal_code, customers.country,
shippers.name as shippers_name, shippers.phone as shippers_phone,
employees.last_name as employees_last_name, employees.first_name as
employees_first_name, employees.birthdate as employees_birthdate,
employees.photo as employees_photo, employees.notes as employees_notes,
order_details.quantity as orderDetails_quantity,
products.name as product_name, products.id as product_id, products.unit as product_unit,
products.price as product_price,
suppliers.name as suppliers_name, suppliers.contact as suppliers_contact, suppliers.address
as suppliers_address, suppliers.city as suppliers_city,
suppliers.postal_code as suppliers_code, suppliers.country as suppliers_counrty,
suppliers.phone as suppliers_phone,
categories.name as categories_name, categories.description as categories_des
from orders
inner join customers
On customers.id = orders.customer_id
inner join shippers

On shippers.id = orders.shipper_id

inner join employees

On employees.employee_id = orders.employee_id

inner join order_details

On order_details.order_id = orders.id

inner join products

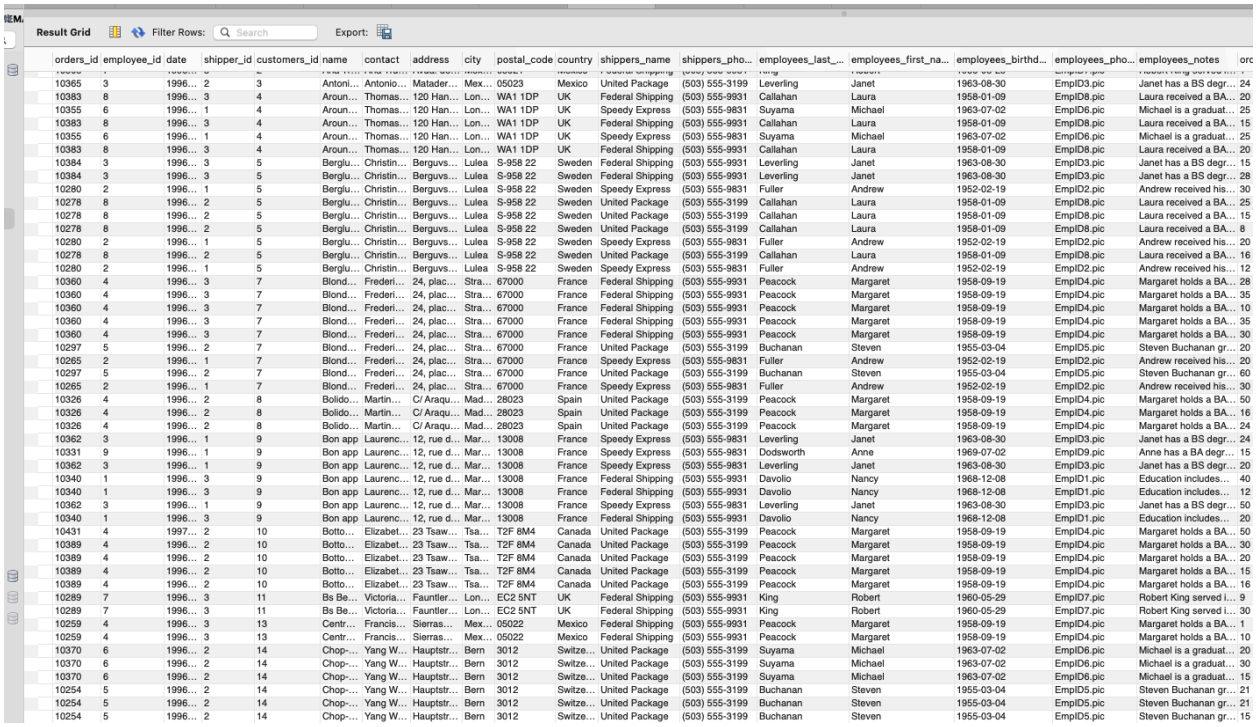
On products.id = order_details.product_id

inner join suppliers

On suppliers.id = products.supplier_id

inner join categories

On categories.id = products.category_id;

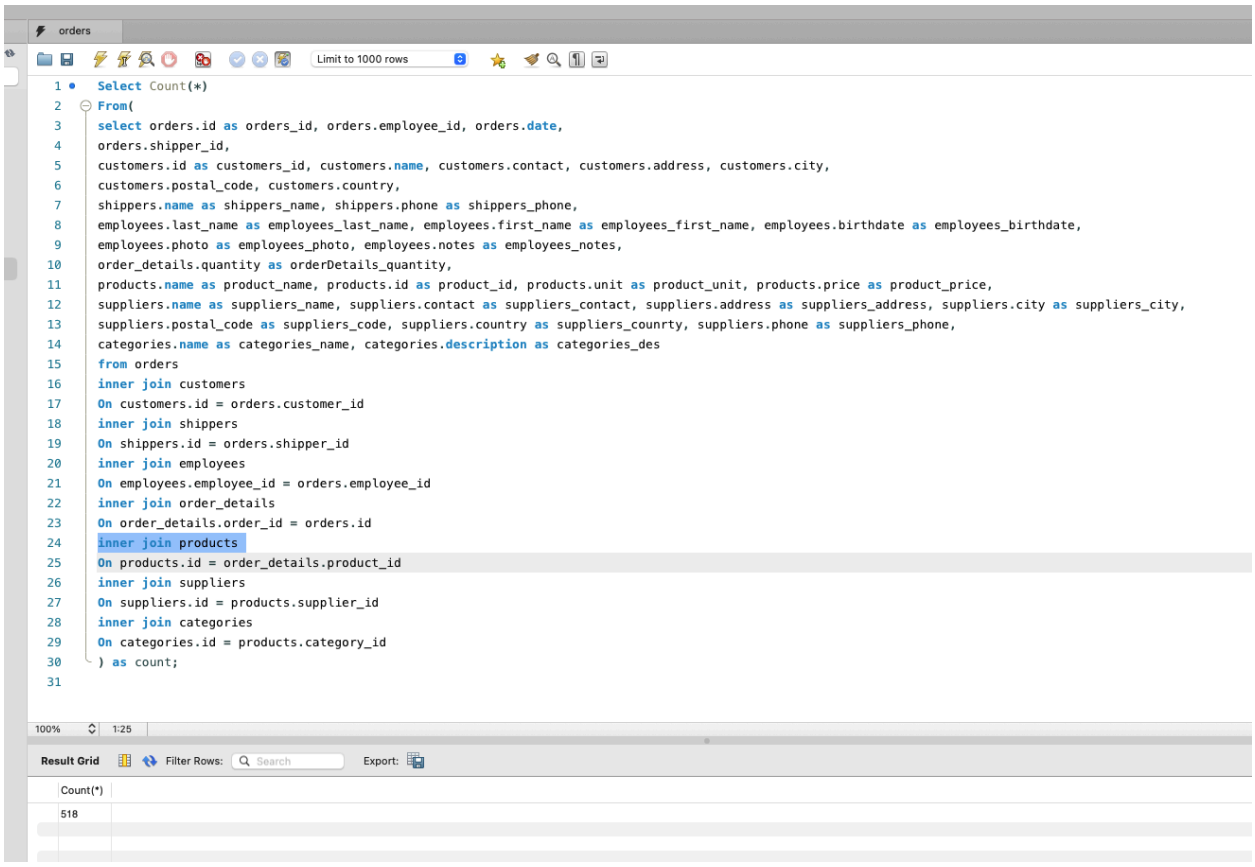


Result Grid Filter Rows: Search Export:

orders_id	employee_id	date	shipper_id	customers_id	name	contact	address	city	postal_code	country	shippers_name	shippers_pho...	employees_last_...	employees_first_na...	employees_birthd...	employees_pho...	employees_notes	orc
10365	3	1996...	2	3	Antoni...	Antonio...	Matader...	Mex...	05023	Mexico	United Package	(503) 555-3199	Leverling	Janet	1963-08-30	EmpID3.pic	Janet has a BS degr...	24
10383	8	1996...	3	4	Aroun...	Thomas...	120 Han...	Lon...	WA1 1DP	UK	Federal Shipping	(503) 555-9931	Callahan	Laura	1958-01-09	EmpID8.pic	Laura received a BA...	20
10355	6	1996...	1	4	Aroun...	Thomas...	120 Han...	Lon...	WA1 1DP	UK	Speedy Express	(503) 555-9831	Suyama	Michael	1963-07-02	EmpID6.pic	Michael is a graduat...	25
10383	8	1996...	3	4	Aroun...	Thomas...	120 Han...	Lon...	WA1 1DP	UK	Federal Shipping	(503) 555-9931	Callahan	Laura	1958-01-09	EmpID8.pic	Laura received a BA...	15
10355	6	1996...	1	4	Aroun...	Thomas...	120 Han...	Lon...	WA1 1DP	UK	Speedy Express	(503) 555-9831	Suyama	Michael	1963-07-02	EmpID6.pic	Michael is a graduat...	25
10383	8	1996...	3	4	Aroun...	Thomas...	120 Han...	Lon...	WA1 1DP	UK	Federal Shipping	(503) 555-9931	Callahan	Laura	1958-01-09	EmpID8.pic	Laura received a BA...	20
10384	3	1996...	3	5	Berglu...	Christin...	Berguvs...	Lulea	S-958 22	Sweden	Federal Shipping	(503) 555-9931	Leverling	Janet	1963-08-30	EmpID3.pic	Janet has a BS degr...	15
10384	3	1996...	3	5	Berglu...	Christin...	Berguvs...	Lulea	S-958 22	Sweden	Federal Shipping	(503) 555-9931	Leverling	Janet	1963-08-30	EmpID3.pic	Janet has a BS degr...	28
10280	2	1996...	1	5	Berglu...	Christin...	Berguvs...	Lulea	S-958 22	Sweden	Speedy Express	(503) 555-9831	Fuller	Andrew	1952-02-19	EmpID2.pic	Andrew received his...	30
10278	8	1996...	2	5	Berglu...	Christin...	Berguvs...	Lulea	S-958 22	Sweden	United Package	(503) 555-3199	Callahan	Laura	1958-01-09	EmpID8.pic	Laura received a BA...	25
10278	8	1996...	2	5	Berglu...	Christin...	Berguvs...	Lulea	S-958 22	Sweden	United Package	(503) 555-3199	Callahan	Laura	1958-01-09	EmpID8.pic	Laura received a BA...	15
10278	8	1996...	2	5	Berglu...	Christin...	Berguvs...	Lulea	S-958 22	Sweden	United Package	(503) 555-3199	Callahan	Laura	1958-01-09	EmpID8.pic	Laura received a BA...	8
10280	2	1996...	1	5	Berglu...	Christin...	Berguvs...	Lulea	S-958 22	Sweden	Speedy Express	(503) 555-9831	Fuller	Andrew	1952-02-19	EmpID2.pic	Andrew received his...	20
10278	8	1996...	2	5	Berglu...	Christin...	Berguvs...	Lulea	S-958 22	Sweden	United Package	(503) 555-3199	Callahan	Laura	1958-01-09	EmpID8.pic	Laura received a BA...	16
10280	2	1996...	1	5	Berglu...	Christin...	Berguvs...	Lulea	S-958 22	Sweden	Speedy Express	(503) 555-9831	Fuller	Andrew	1952-02-19	EmpID2.pic	Andrew received his...	12
10360	4	1996...	3	7	Blond...	Frederi...	24, plac...	Stra...	67000	France	Federal Shipping	(503) 555-9931	Peacock	Margaret	1958-09-19	EmpID4.pic	Margaret holds a BA...	28
10360	4	1996...	3	7	Blond...	Frederi...	24, plac...	Stra...	67000	France	Federal Shipping	(503) 555-9931	Peacock	Margaret	1958-09-19	EmpID4.pic	Margaret holds a BA...	35
10360	4	1996...	3	7	Blond...	Frederi...	24, plac...	Stra...	67000	France	Federal Shipping	(503) 555-9931	Peacock	Margaret	1958-09-19	EmpID4.pic	Margaret holds a BA...	10
10360	4	1996...	3	7	Blond...	Frederi...	24, plac...	Stra...	67000	France	Federal Shipping	(503) 555-9931	Peacock	Margaret	1958-09-19	EmpID4.pic	Margaret holds a BA...	35
10360	4	1996...	3	7	Blond...	Frederi...	24, plac...	Stra...	67000	France	Federal Shipping	(503) 555-9931	Peacock	Margaret	1958-09-19	EmpID4.pic	Margaret holds a BA...	30
10297	5	1996...	2	7	Blond...	Frederi...	24, plac...	Stra...	67000	France	United Package	(503) 555-3199	Buchanan	Steven	1955-03-04	EmpID5.pic	Steven Buchanan gr...	20
10265	2	1996...	1	7	Blond...	Frederi...	24, plac...	Stra...	67000	France	Speedy Express	(503) 555-9831	Fuller	Andrew	1952-02-19	EmpID2.pic	Andrew received his...	20
10297	5	1996...	2	7	Blond...	Frederi...	24, plac...	Stra...	67000	France	United Package	(503) 555-3199	Buchanan	Steven	1955-03-04	EmpID5.pic	Steven Buchanan gr...	60
10265	2	1996...	1	7	Blond...	Frederi...	24, plac...	Stra...	67000	France	Speedy Express	(503) 555-9831	Fuller	Andrew	1952-02-19	EmpID2.pic	Andrew received his...	30
10326	4	1996...	2	8	Bolido...	Martin...	C/ Araqu...	Mad...	28023	Spain	United Package	(503) 555-3199	Peacock	Margaret	1958-09-19	EmpID4.pic	Margaret holds a BA...	50
10326	4	1996...	2	8	Bolido...	Martin...	C/ Araqu...	Mad...	28023	Spain	United Package	(503) 555-3199	Peacock	Margaret	1958-09-19	EmpID4.pic	Margaret holds a BA...	16
10326	4	1996...	2	8	Bolido...	Martin...	C/ Araqu...	Mad...	28023	Spain	United Package	(503) 555-3199	Peacock	Margaret	1958-09-19	EmpID4.pic	Margaret holds a BA...	24
10362	3	1996...	1	9	Bon app	Laurenc...	12, rue d...	Mar...	13008	France	Speedy Express	(503) 555-9831	Leverling	Janet	1963-08-30	EmpID3.pic	Janet has a BS degr...	24
10331	9	1996...	1	9	Bon app	Laurenc...	12, rue d...	Mar...	13008	France	Speedy Express	(503) 555-9831	Dodsworth	Anne	1969-07-02	EmpID9.pic	Anne has a BA degr...	15
10362	3	1996...	1	9	Bon app	Laurenc...	12, rue d...	Mar...	13008	France	Speedy Express	(503) 555-9831	Leverling	Janet	1963-08-30	EmpID3.pic	Janet has a BS degr...	20
10340	1	1996...	3	9	Bon app	Laurenc...	12, rue d...	Mar...	13008	France	Federal Shipping	(503) 555-9931	Davolio	Nancy	1968-12-08	EmpID1.pic	Education includes...	40
10340	1	1996...	3	9	Bon app	Laurenc...	12, rue d...	Mar...	13008	France	Federal Shipping	(503) 555-9931	Davolio	Nancy	1968-12-08	EmpID1.pic	Education includes...	12
10362	3	1996...	1	9	Bon app	Laurenc...	12, rue d...	Mar...	13008	France	Speedy Express	(503) 555-9831	Leverling	Janet	1963-08-30	EmpID3.pic	Janet has a BS degr...	50
10340	1	1996...	3	9	Bon app	Laurenc...	12, rue d...	Mar...	13008	France	Federal Shipping	(503) 555-9931	Davolio	Nancy	1968-12-08	EmpID1.pic	Education includes...	20
10431	4	1997...	2	10	Botto...	Elizabet...	23 Tsaw...	Tsa...	T2F 8M4	Canada	United Package	(503) 555-3199	Peacock	Margaret	1958-09-19	EmpID4.pic	Margaret holds a BA...	50
10389	4	1996...	2	10	Botto...	Elizabet...	23 Tsaw...	Tsa...	T2F 8M4	Canada	Federal Shipping	(503) 555-9931	Peacock	Margaret	1958-09-19	EmpID4.pic	Margaret holds a BA...	30
10389	4	1996...	2	10	Botto...	Elizabet...	23 Tsaw...	Tsa...	T2F 8M4	Canada	United Package	(503) 555-3199	Peacock	Margaret	1958-09-19	EmpID4.pic	Margaret holds a BA...	20
10389	4	1996...	2	10	Botto...	Elizabet...	23 Tsaw...	Tsa...	T2F 8M4	Canada	United Package	(503) 555-3199	Peacock	Margaret	1958-09-19	EmpID4.pic	Margaret holds a BA...	15
10389	4	1996...	2	10	Botto...	Elizabet...	23 Tsaw...	Tsa...	T2F 8M4	Canada	United Package	(503) 555-3199	Peacock	Margaret	1958-09-19	EmpID4.pic	Margaret holds a BA...	16
10289	7	1996...	3	11	Bs Be...	Victoria...	Fauntler...	Lon...	EC2 5NT	UK	Federal Shipping	(503) 555-9931	King	Robert	1960-05-29	EmpID7.pic	Robert King served i...	9
10289	7	1996...	3	11	Bs Be...	Victoria...	Fauntler...	Lon...	EC2 5NT	UK	Federal Shipping	(503) 555-9931	King	Robert	1960-05-29	EmpID7.pic	Robert King served i...	30
10259	4	1996...	3	13	Centr...	Francis...	Sierras...	Mex...	05022	Mexico	Federal Shipping	(503) 555-9931	Peacock	Margaret	1958-09-19	EmpID4.pic	Margaret holds a BA...	1
10259	4	1996...	3	13	Centr...	Francis...	Sierras...	Mex...	05022	Mexico	Federal Shipping	(503) 555-9931	Peacock	Margaret	1958-09-19	EmpID4.pic	Margaret holds a BA...	10
10370	6	1996...	2	14	Chop-...	Yang W...	Hauptstr...	Bern	3012	Switze...	United Package	(503) 555-3199	Suyama	Michael	1963-07-02	EmpID6.pic	Michael is a graduat...	20
10370	6	1996...	2	14	Chop-...	Yang W...	Hauptstr...	Bern	3012	Switze...	United Package	(503) 555-3199	Suyama	Michael	1963-07-02	EmpID6.pic	Michael is a graduat...	30
10370	6	1996...	2	14	Chop-...	Yang W...	Hauptstr...	Bern	3012	Switze...	United Package	(503) 555-3199	Suyama	Michael	1963-07-02	EmpID6.pic	Michael is a graduat...	15
10254	5	1996...	2	14	Chop-...	Yang W...	Hauptstr...	Bern	3012	Switze...	United Package	(503) 555-3199	Buchanan	Steven	1955-03-04	EmpID5.pic	Steven Buchanan gr...	21
10254	5	1996...	2	14	Chop-...	Yang W...	Hauptstr...	Bern	3012	Switze...	United Package	(503) 555-3199	Buchanan	Steven	1955-03-04	EmpID5.pic	Steven Buchanan gr...	21
10254	5	1996...	2	14	Chop-...	Yang W...	Hauptstr...	Bern	3012	Switze...	United Package	(503) 555-3199	Buchanan	Steven	1955-03-04	EmpID5.pic	Steven Buchanan gr...	15

employees_notes	orderDetails_quan...	product_name	product_...	product_unit	product_pri...	suppliers_name	suppliers_contact	suppliers_address	suppliers_city	suppliers_co...	suppliers_coun...	suppliers_pho...	categories_na...	categories_des
Robert King served i...	5	Outback Lager	70	24 - 355 ml bottles	15	Pavlova, Ltd.	Ian Devling	74 Rose St. Moonie Ponds	Melbourne	3058	Australia	(03) 444-2343	Beverages	Soft drinks, coffees, teas, beers, and ales
Robert King served i...	1	Gudbrandsdal...	69	10 kg pkg.	36	Norske Meierier	Beate Vileid	Hatlevegen 5	Sandvika	1320	Norway	(0)2-953010	Dairy Products	Cheeses
Janet has a BS degr...	24	Queso Cabrales	11	1 kg pkg.	21	Cooperativa de Quesos Las Cabras	Antonio del Valle Saavedra	Calle del Rosal 4	Oviedo	33007	Spain	(98) 598 76 54	Dairy Products	Cheeses
Laura received a BA...	20	Gnocchi di no...	56	24 - 250 g pkgs.	38	Pasta Buttini s.r.l.	Giovanni Giudici	Via dei Gelsomini, 153	Salerno	84100	Italy	(089) 6547665	Grains/Cereals	Breads, crackers, pasta, and cereal
Michael is a graduat...	25	Ravioli Angelo	57	24 - 250 g pkgs.	19.5	Pasta Buttini s.r.l.	Giovanni Giudici	Via dei Gelsomini, 153	Salerno	84100	Italy	(089) 6547665	Grains/Cereals	Breads, crackers, pasta, and cereal
Laura received a BA...	15	Valkoinen suk...	50	12 - 100 g bars	16.25	Karkki Oy	Anne Heikkonen	Valtakatu 12	Lappeenranta	53120	Finland	(953) 10956	Confections	Desserts, candies, and sweet breads
Michael is a graduat...	25	Guarana Fant...	24	12 - 355 ml cans	4.5	Refrescos Americanas LTDA	Carlos Diaz	Av. das Americanas 12.890	Sao Paulo	5442	Brazil	(11) 555 4640	Beverages	Soft drinks, coffees, teas, beers, and ales
Laura received a BA...	20	Konbu	13	2 kg box	6	Mayumis	Mayumi Ohno	92 Setsuko Chuo-ku	Osaka	545	Japan	(06) 431-7877	Seafood	Seaweed and fish
Janet has a BS degr...	15	Camembert P...	60	15 - 300 g rounds	34	Gai paturage	Eliane Noz	Bat. B 3, rue des Alpes	Annecy	74000	France	38.76.98.06	Dairy Products	Cheeses
Janet has a BS degr...	28	Sir Rodneys...	20	30 gift boxes	81	Specialty Biscuits, Ltd.	Peter Wilson	29 Kings Way	Manchester	M14 GSD	UK	(161) 555-4448	Confections	Desserts, candies, and sweet breads
Andrew received his...	30	Rhonbrau Klo...	75	24 - 0.5 l bottles	7.75	Plutzer Lebensmittelgrossmarkte AG	Martin Bein	Bogenallee 51	Frankfurt	60439	Germany	(069) 992755	Beverages	Soft drinks, coffees, teas, beers, and ales
Laura received a BA...	25	Rod Kaviar	73	24 - 150 g jars	15	Svensk Sjöfoda AB	Michael Bjorn	Brovallavagen 231	Stockholm	S-123 45	Sweden	08-123 45 67	Seafood	Seaweed and fish
Laura received a BA...	15	Raclette Cour...	59	5 kg pkg.	55	Gai paturage	Eliane Noz	Bat. B 3, rue des Alpes	Annecy	74000	France	38.76.98.06	Dairy Products	Cheeses
Laura received a BA...	8	Vegie-spread	63	15 - 625 g jars	43.9	Pavlova, Ltd.	Ian Devling	74 Rose St. Moonie Ponds	Melbourne	3058	Australia	(03) 444-2343	Condiments	Sweet and savory sauces, relishes, spr...
Andrew received his...	20	Pate chinois	55	24 boxes x 2 pies	24	Ma Maison	Jean-Guy Lauzon	2960 Rue St. Laurent	Montreal	H1J 1C3	Canada	(514) 555-9022	Meat/Poultry	Prepared meats
Laura received a BA...	16	Gula Malacca	44	20 - 2 kg bags	19.45	Leka Trading	Chandra Leka	471 Serangoon Loop, Sui...	Singapore	0512	Singapore	555-8787	Condiments	Sweet and savory sauces, relishes, spr...
Andrew received his...	12	Guarana Fant...	24	12 - 355 ml cans	4.5	Refrescos Americanas LTDA	Carlos Diaz	Av. das Americanas 12.890	Sao Paulo	5442	Brazil	(11) 555 4640	Beverages	Soft drinks, coffees, teas, beers, and ales
Margaret holds a BA...	28	Tourtiere	54	16 pies	7.45	Ma Maison	Jean-Guy Lauzon	2960 Rue St. Laurent	Montreal	H1J 1C3	Canada	(514) 555-9022	Meat/Poultry	Prepared meats
Margaret holds a BA...	35	Maxilaku	49	24 - 50 g pkgs.	20	Karkki Oy	Anne Heikkonen	Valtakatu 12	Lappeenranta	53120	Finland	(953) 10956	Confections	Desserts, candies, and sweet breads
Margaret holds a BA...	10	Cote de Blaye	38	12 - 75 cl bottles	263.5	Aux joyeux ecclesiastiques	Guylene Nodier	203, Rue des Francs-Bou...	Paris	75004	France	(1) 03.83.00.68	Beverages	Soft drinks, coffees, teas, beers, and ales
Margaret holds a BA...	35	Thuringer Ros...	29	50 bags x 30 sau...	123.79	Plutzer Lebensmittelgrossmarkte AG	Martin Bein	Bogenallee 51	Frankfurt	60439	Germany	(069) 992755	Meat/Poultry	Prepared meats
Margaret holds a BA...	30	Rossle Sauer...	28	25 - 825 g cans	45.6	Plutzer Lebensmittelgrossmarkte AG	Martin Bein	Bogenallee 51	Frankfurt	60439	Germany	(069) 992755	Produce	Dried fruit and bean curd
Steven Buchanan gr...	20	Mozzarella di...	72	24 - 200 g pkgs.	34.8	Formaggi Fortini s.r.l.	Elio Rossi	Viale Dante, 75	Ravenna	48100	Italy	(0544) 60323	Dairy Products	Cheeses
Andrew received his...	20	Outback Lager	70	24 - 355 ml bottles	15	Pavlova, Ltd.	Ian Devling	74 Rose St. Moonie Ponds	Melbourne	3058	Australia	(03) 444-2343	Beverages	Soft drinks, coffees, teas, beers, and ales
Steven Buchanan gr...	60	Chartreuse ve...	39	750 cc per bottle	18	Aux joyeux ecclesiastiques	Guylene Nodier	203, Rue des Francs-Bou...	Paris	75004	France	(1) 03.83.00.68	Beverages	Soft drinks, coffees, teas, beers, and ales
Andrew received his...	30	Alice Mutton	17	20 - 1 kg tins	39	Pavlova, Ltd.	Ian Devling	74 Rose St. Moonie Ponds	Melbourne	3058	Australia	(03) 444-2343	Meat/Poultry	Prepared meats
Margaret holds a BA...	50	Rhonbrau Klo...	75	24 - 0.5 l bottles	7.75	Plutzer Lebensmittelgrossmarkte AG	Martin Bein	Bogenallee 51	Frankfurt	60439	Germany	(069) 992755	Beverages	Soft drinks, coffees, teas, beers, and ales
Margaret holds a BA...	16	Ravioli Angelo	57	24 - 250 g pkgs.	19.5	Pasta Buttini s.r.l.	Giovanni Giudici	Via dei Gelsomini, 153	Salerno	84100	Italy	(089) 6547665	Grains/Cereals	Breads, crackers, pasta, and cereal
Margaret holds a BA...	24	Chef Antons...	4	48 - 6 oz jars	22	New Orleans Cajun Delights	Shelley Burke	P.O. Box 78934	New Orleans	70117	USA	(100) 555-4822	Condiments	Sweet and savory sauces, relishes, spr...
Janet has a BS degr...	24	Tourtiere	54	16 pies	7.45	Ma Maison	Jean-Guy Lauzon	2960 Rue St. Laurent	Montreal	H1J 1C3	Canada	(514) 555-9022	Meat/Poultry	Prepared meats
Anne has a BA degr...	15	Tourtiere	54	16 pies	7.45	Ma Maison	Jean-Guy Lauzon	2960 Rue St. Laurent	Montreal	H1J 1C3	Canada	(514) 555-9022	Meat/Poultry	Prepared meats
Janet has a BS degr...	20	Manjimup Dri...	51	50 - 300 g pkgs.	53	Gday, Mate	Wendy Mackenzie	170 Prince Edward Parad...	Sydney	2042	Australia	(02) 555-5914	Produce	Dried fruit and bean curd
Education includes...	40	Ipoh Coffee	43	16 - 500 g tins	46	Leka Trading	Chandra Leka	471 Serangoon Loop, Sui...	Singapore	0512	Singapore	555-8787	Beverages	Soft drinks, coffees, teas, beers, and ales
Education includes...	12	Jacks New En...	41	12 - 12 oz cans	9.65	New England Seafood Cannery	Robb Merchant	Order Processing Dept. 2...	Boston	02134	USA	(617) 555-3267	Seafood	Seaweed and fish
Janet has a BS degr...	50	NuNuCa Nus...	25	20 - 450 g glasses	14	Heli Susswaren GmbH and Co. KG	Petra Winkler	Tiergartenstrasse 5	Berlin	10785	Germany	(010) 9984510	Confections	Desserts, candies, and sweet breads
Education includes...	20	Camarvon Tig...	18	16 kg pkg.	62.5	Pavlova, Ltd.	Ian Devling	74 Rose St. Moonie Ponds	Melbourne	3058	Australia	(03) 444-2343	Seafood	Seaweed and fish
Margaret holds a BA...	50	Alice Mutton	17	20 - 1 kg tins	39	Pavlova, Ltd.	Ian Devling	74 Rose St. Moonie Ponds	Melbourne	3058	Australia	(03) 444-2343	Meat/Poultry	Prepared meats
Margaret holds a BA...	30	Outback Lager	70	24 - 355 ml bottles	15	Pavlova, Ltd.	Ian Devling	74 Rose St. Moonie Ponds	Melbourne	3058	Australia	(03) 444-2343	Beverages	Soft drinks, coffees, teas, beers, and ales
Margaret holds a BA...	20	Tarte au sucre	62	48 pies	49.3	Forets derables	Chantal Goulet	148 rue Chasseur	Ste-Hyacinthe	J2S 7S8	Canada	(514) 555-2955	Confections	Desserts, candies, and sweet breads
Margaret holds a BA...	15	Pate chinois	55	24 boxes x 2 pies	24	Ma Maison	Jean-Guy Lauzon	2960 Rue St. Laurent	Montreal	H1J 1C3	Canada	(514) 555-9022	Meat/Poultry	Prepared meats
Margaret holds a BA...	16	Ikura	10	12 - 200 ml jars	31	Tokyo Traders	Yoshi Nagase	9-8 Sekimai Musashino-shi	Tokyo	100	Japan	(03) 3555-5011	Seafood	Seaweed and fish
Robert King served i...	9	Wimmers gut...	64	20 bags x 4 pieces	33.25	Plutzer Lebensmittelgrossmarkte AG	Martin Bein	Bogenallee 51	Frankfurt	60439	Germany	(069) 992755	Grains/Cereals	Breads, crackers, pasta, and cereal
Robert King served i...	30	Aniseed Syrup	3	12 - 550 ml bottles	10	Exotic Liquid	Charlotte Cooper	49 Gilbert St.	Londona	EC1 4SD	UK	(171) 555-2222	Condiments	Sweet and savory sauces, relishes, spr...
Margaret holds a BA...	1	Gravad lax	37	12 - 500 g pkgs.	26	Svensk Sjöfoda AB	Michael Bjorn	Brovallavagen 231	Stockholm	S-123 45	Sweden	08-123 45 67	Seafood	Seaweed and fish
Margaret holds a BA...	10	Sir Rodneys...	21	24 pkgs. x 4 pieces	10	Specialty Biscuits, Ltd.	Peter Wilson	29 Kings Way	Manchester	M14 GSD	UK	(161) 555-4448	Confections	Desserts, candies, and sweet breads
Michael is a graduat...	20	Longlife Tofu	74	5 kg pkg.	10	Tokyo Traders	Yoshi Nagase	9-8 Sekimai Musashino-shi	Tokyo	100	Japan	(03) 3555-5011	Produce	Dried fruit and bean curd
Michael is a graduat...	30	Wimmers gut...	64	20 bags x 4 pieces	33.25	Plutzer Lebensmittelgrossmarkte AG	Martin Bein	Bogenallee 51	Frankfurt	60439	Germany	(069) 992755	Grains/Cereals	Breads, crackers, pasta, and cereal
Michael is a graduat...	15	Chais	1	10 boxes x 20 bags	18	Exotic Liquid	Charlotte Cooper	49 Gilbert St.	Londona	EC1 4SD	UK	(171) 555-2222	Beverages	Soft drinks, coffees, teas, beers, and ales
Steven Buchanan gr...	21	Longlife Tofu	74	5 kg pkg.	10	Tokyo Traders	Yoshi Nagase	9-8 Sekimai Musashino-shi	Tokyo	100	Japan	(03) 3555-5011	Produce	Dried fruit and bean curd

4.1



```
Select Count(*)
From(
select orders.id as orders_id, orders.employee_id, orders.date,
orders.shipper_id,
customers.id as customers_id, customers.name, customers.contact, customers.address,
customers.city,
customers.postal_code, customers.country,
shippers.name as shippers_name, shippers.phone as shippers_phone,
employees.last_name as employees_last_name, employees.first_name as
employees_first_name, employees.birthdate as employees_birthdate,
employees.photo as employees_photo, employees.notes as employees_notes,
order_details.quantity as orderDetails_quantity,
products.name as product_name, products.id as product_id, products.unit as product_unit,
products.price as product_price,
suppliers.name as suppliers_name, suppliers.contact as suppliers_contact, suppliers.address
as suppliers_address, suppliers.city as suppliers_city,
suppliers.postal_code as suppliers_code, suppliers.country as suppliers_counrty,
suppliers.phone as suppliers_phone,
categories.name as categories_name, categories.description as categories_des
from orders
inner join customers
On customers.id = orders.customer_id
inner join shippers
On shippers.id = orders.shipper_id
inner join employees
On employees.employee_id = orders.employee_id
inner join order_details
On order_details.order_id = orders.id
inner join products
On products.id = order_details.product_id
inner join suppliers
On suppliers.id = products.supplier_id
inner join categories
On categories.id = products.category_id
) as count;
```

4.3

orders

Limit to 1000 rows

```sql
select orders.id as orders_id, orders.employee_id, orders.date,
orders.shipper_id,
customers.id as customers_id, customers.name, customers.contact, customers.address, customers.city,
customers.postal_code, customers.country,
shippers.name as shippers_name, shippers.phone as shippers_phone,
employees.last_name as employees_last_name, employees.first_name as employees_first_name, employees.birthdate as employees_birthdate,
employees.photo as employees_photo, employees.notes as employees_notes,
order_details.quantity as orderDetails_quantity,
products.name as product_name, products.id as product_id, products.unit as product_unit, products.price as product_price,
suppliers.name as suppliers_name, suppliers.contact as suppliers_contact, suppliers.address as suppliers_address, suppliers.city as suppliers_city,
suppliers.postal_code as suppliers_code, suppliers.country as suppliers_counrty, suppliers.phone as suppliers_phone,
categories.name as categories_name, categories.description as categories_des
from orders
inner join customers
On customers.id = orders.customer_id
inner join shippers
On shippers.id = orders.shipper_id
inner join employees
On employees.employee_id = orders.employee_id
inner join order_details
On order_details.order_id = orders.id
inner join products
On products.id = order_details.product_id
inner join suppliers
On suppliers.id = products.supplier_id
inner join categories
On categories.id = products.category_id
WHERE orders.employee_id > 3 AND orders.employee_id <= 10;
```

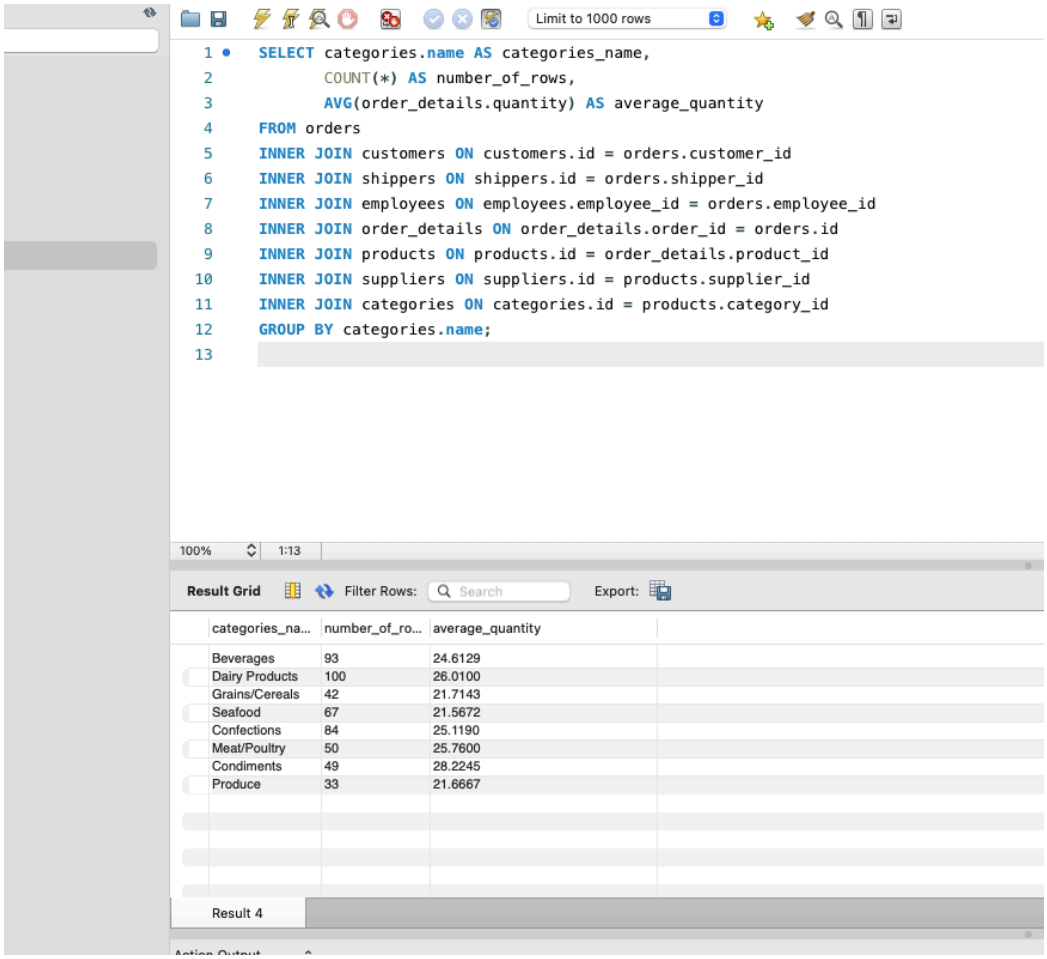
Result Grid Filter Rows: Search Export:

orders_id	employee_id	date	shipper_id	customers_id	name	contact	address	city	postal_code	country	shippers_name	shippers_pho...	employees_last_...	employees_first_
10308	7	1996...	3	2	Ana Tr...	Ana Tru...	Avda. de...	Mex...	05021	Mexico	Federal Shipping	(503) 555-9931	King	Robert
10308	7	1996...	3	2	Ana Tr...	Ana Tru...	Avda. de...	Mex...	05021	Mexico	Federal Shipping	(503) 555-9931	King	Robert
10383	8	1996...	3	4	Aroun...	Thomas...	120 Han...	Lon...	WA1 1DP	UK	Federal Shipping	(503) 555-9931	Callahan	Laura
10383	8	1996...	3	4	Aroun...	Thomas...	120 Han...	Lon...	WA1 1DP	UK	Federal Shipping	(503) 555-9931	Callahan	Laura
10355	6	1996...	1	4	Aroun...	Thomas...	120 Han...	Lon...	WA1 1DP	UK	Speedy Express	(503) 555-9831	Suyama	Michael
10383	8	1996...	3	4	Aroun...	Thomas...	120 Han...	Lon...	WA1 1DP	UK	Federal Shipping	(503) 555-9931	Callahan	Laura
10355	6	1996...	1	4	Aroun...	Thomas...	120 Han...	Lon...	WA1 1DP	UK	Speedy Express	(503) 555-9831	Suyama	Michael
10278	8	1996...	2	5	Berglu...	Christin...	Berguvs...	Lulea	S-958 22	Sweden	United Package	(503) 555-3199	Callahan	Laura
10278	8	1996...	2	5	Berglu...	Christin...	Berguvs...	Lulea	S-958 22	Sweden	United Package	(503) 555-3199	Callahan	Laura
10278	8	1996...	2	5	Berglu...	Christin...	Berguvs...	Lulea	S-958 22	Sweden	United Package	(503) 555-3199	Callahan	Laura
10278	8	1996...	2	5	Berglu...	Christin...	Berguvs...	Lulea	S-958 22	Sweden	United Package	(503) 555-3199	Callahan	Laura
10360	4	1996...	3	7	Blond...	Frederi...	24, plac...	Stra...	67000	France	Federal Shipping	(503) 555-9931	Peacock	Margaret
10360	4	1996...	3	7	Blond...	Frederi...	24, plac...	Stra...	67000	France	Federal Shipping	(503) 555-9931	Peacock	Margaret
10360	4	1996...	3	7	Blond...	Frederi...	24, plac...	Stra...	67000	France	Federal Shipping	(503) 555-9931	Peacock	Margaret
10297	5	1996...	2	7	Blond...	Frederi...	24, plac...	Stra...	67000	France	United Package	(503) 555-3199	Buchanan	Steven
10360	4	1996...	3	7	Blond...	Frederi...	24, plac...	Stra...	67000	France	Federal Shipping	(503) 555-9931	Peacock	Margaret
10360	4	1996...	3	7	Blond...	Frederi...	24, plac...	Stra...	67000	France	Federal Shipping	(503) 555-9931	Peacock	Margaret
10297	5	1996...	2	7	Blond...	Frederi...	24, plac...	Stra...	67000	France	United Package	(503) 555-3199	Buchanan	Steven
10326	4	1996...	2	8	Bolido...	Martin...	C/ Araqu...	Mad...	28023	Spain	United Package	(503) 555-3199	Peacock	Margaret
10326	4	1996...	2	8	Bolido...	Martin...	C/ Araqu...	Mad...	28023	Spain	United Package	(503) 555-3199	Peacock	Margaret
10326	4	1996...	2	8	Bolido...	Martin...	C/ Araqu...	Mad...	28023	Spain	United Package	(503) 555-3199	Peacock	Margaret
10331	9	1996...	1	9	Bon app	Laurenc...	12, rue d...	Mar...	13008	France	Speedy Express	(503) 555-9831	Dodsworth	Anne
10389	4	1996...	2	10	Botto...	Elizabet...	23 Tsaw...	Tsa...	T2F 8M4	Canada	United Package	(503) 555-3199	Peacock	Margaret
10431	4	1997...	2	10	Botto...	Elizabet...	23 Tsaw...	Tsa...	T2F 8M4	Canada	United Package	(503) 555-3199	Peacock	Margaret
10411	9	1997...	3	10	Botto...	Elizabet...	23 Tsaw...	Tsa...	T2F 8M4	Canada	Federal Shipping	(503) 555-9931	Dodsworth	Anne
10431	4	1997...	2	10	Botto...	Elizabet...	23 Tsaw...	Tsa...	T2F 8M4	Canada	United Package	(503) 555-3199	Peacock	Margaret
10389	4	1996...	2	10	Botto...	Elizabet...	23 Tsaw...	Tsa...	T2F 8M4	Canada	United Package	(503) 555-3199	Peacock	Margaret
10389	4	1996...	2	10	Botto...	Elizabet...	23 Tsaw...	Tsa...	T2F 8M4	Canada	United Package	(503) 555-3199	Peacock	Margaret
10411	9	1997...	3	10	Botto...	Elizabet...	23 Tsaw...	Tsa...	T2F 8M4	Canada	Federal Shipping	(503) 555-9931	Dodsworth	Anne
10389	4	1996...	2	10	Botto...	Elizabet...	23 Tsaw...	Tsa...	T2F 8M4	Canada	United Package	(503) 555-3199	Peacock	Margaret
10431	4	1997...	2	10	Botto...	Elizabet...	23 Tsaw...	Tsa...	T2F 8M4	Canada	United Package	(503) 555-3199	Peacock	Margaret
10411	9	1997...	3	10	Botto...	Elizabet...	23 Tsaw...	Tsa...	T2F 8M4	Canada	Federal Shipping	(503) 555-9931	Dodsworth	Anne
10289	7	1996...	3	11	Bs Be...	Victoria...	Fauntler...	Lon...	EC2 5NT	UK	Federal Shipping	(503) 555-9931	King	Robert
10289	7	1996...	3	11	Bs Be...	Victoria...	Fauntler...	Lon...	EC2 5NT	UK	Federal Shipping	(503) 555-9931	King	Robert
10259	4	1996...	3	13	Centr...	Francis...	Sierras...	Mex...	05022	Mexico	Federal Shipping	(503) 555-9931	Peacock	Margaret
10259	4	1996...	3	13	Centr...	Francis...	Sierras...	Mex...	05022	Mexico	Federal Shipping	(503) 555-9931	Peacock	Margaret
10254	5	1996...	2	14	Chop-...	Yang W...	Hauptstr...	Bern	3012	Switze...	United Package	(503) 555-3199	Buchanan	Steven
10370	6	1996...	2	14	Chop-...	Yang W...	Hauptstr...	Bern	3012	Switze...	United Package	(503) 555-3199	Suyama	Michael
10254	5	1996...	2	14	Chop-...	Yang W...	Hauptstr...	Bern	3012	Switze...	United Package	(503) 555-3199	Buchanan	Steven
10370	6	1996...	2	14	Chop-...	Yang W...	Hauptstr...	Bern	3012	Switze...	United Package	(503) 555-3199	Suyama	Michael
10254	5	1996...	2	14	Chop-...	Yang W...	Hauptstr...	Bern	3012	Switze...	United Package	(503) 555-3199	Buchanan	Steven
10370	6	1996...	2	14	Chop-...	Yang W...	Hauptstr...	Bern	3012	Switze...	United Package	(503) 555-3199	Suyama	Michael
10290	8	1996...	1	15	Come...	Pedro A...	Av. dos...	Sao...	05432-043	Brazil	Speedy Express	(503) 555-9831	Callahan	Laura
10290	8	1996...	1	15	Come...	Pedro A...	Av. dos...	Sao...	05432-043	Brazil	Speedy Express	(503) 555-9831	Callahan	Laura
10290	8	1996...	1	15	Come...	Pedro A...	Av. dos...	Sao...	05432-043	Brazil	Speedy Express	(503) 555-9831	Callahan	Laura
10290	8	1996...	1	15	Come...	Pedro A...	Av. dos...	Sao...	05432-043	Brazil	Speedy Express	(503) 555-9831	Callahan	Laura
10435	8	1997...	2	16	Conso...	Elizabet...	Berkeley...	Lon...	WX1 6LT	UK	United Package	(503) 555-3199	Callahan	Laura
10435	8	1997...	2	16	Conso...	Elizabet...	Berkeley...	Lon...	WX1 6LT	UK	United Package	(503) 555-3199	Callahan	Laura
10435	8	1997...	2	16	Conso...	Elizabet...	Berkeley...	Lon...	WX1 6LT	UK	United Package	(503) 555-3199	Callahan	Laura
10363	4	1996...	3	17	Drach...	Sven Ot...	Walserw...	Aac...	52066	Germa...	Federal Shipping	(503) 555-9931	Peacock	Margaret
10363	4	1996...	3	17	Drach...	Sven Ot...	Walserw...	Aac...	52066	Germa...	Federal Shipping	(503) 555-9931	Peacock	Margaret
10363	4	1996...	3	17	Drach...	Sven Ot...	Walserw...	Aac...	52066	Germa...	Federal Shipping	(503) 555-9931	Peacock	Margaret

```
Select orders.id as orders_id, orders.employee_id, orders.date,
orders.shipper_id,
customers.id as customers_id, customers.name, customers.contact, customers.address,
customers.city,
customers.postal_code, customers.country,
shippers.name as shippers_name, shippers.phone as shippers_phone,
employees.last_name as employees_last_name, employees.first_name as
employees_first_name, employees.birthdate as employees_birthdate,
employees.photo as employees_photo, employees.notes as employees_notes,
order_details.quantity as orderDetails_quantity,
products.name as product_name, products.id as product_id, products.unit as product_unit,
products.price as product_price,
suppliers.name as suppliers_name, suppliers.contact as suppliers_contact, suppliers.address
as suppliers_address, suppliers.city as suppliers_city,
suppliers.postal_code as suppliers_code, suppliers.country as suppliers_counrty,
suppliers.phone as suppliers_phone,
categories.name as categories_name, categories.description as categories_des
from orders
inner join customers
On customers.id = orders.customer_id
inner join shippers
On shippers.id = orders.shipper_id
inner join employees
On employees.employee_id = orders.employee_id
inner join order_details
On order_details.order_id = orders.id
inner join products
On products.id = order_details.product_id
inner join suppliers
On suppliers.id = products.supplier_id
inner join categories
On categories.id = products.category_id
WHERE orders.employee_id > 3 AND orders.employee_id <= 10;
```

4.4

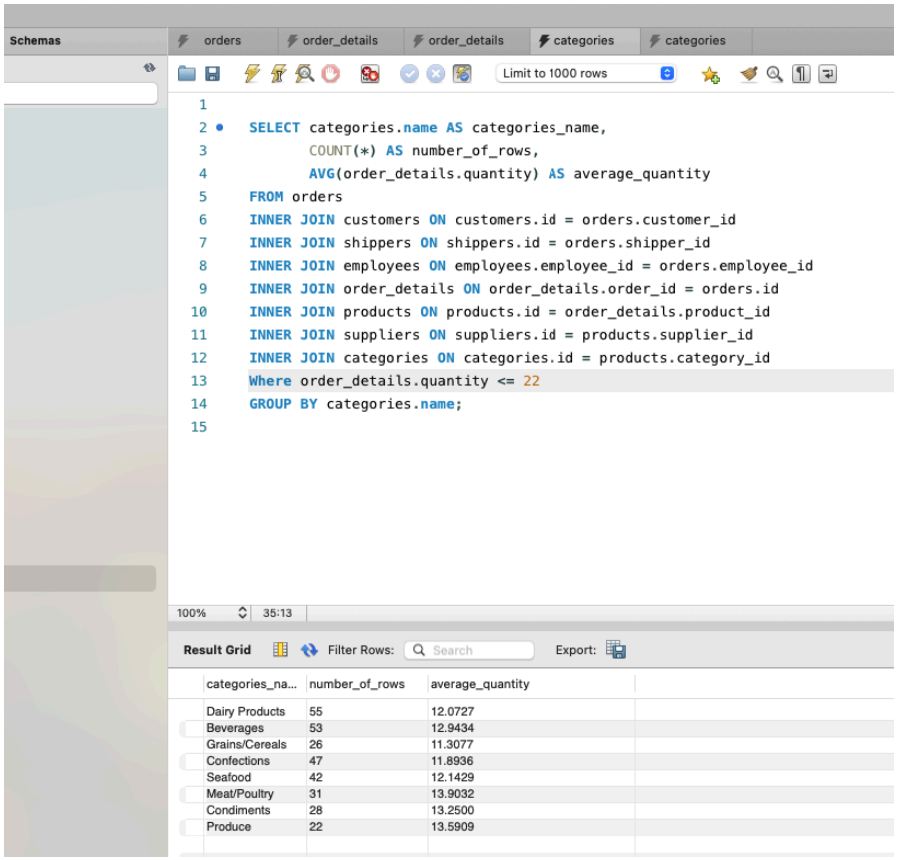
```
SELECT categories.name AS categories_name,
    COUNT(*) AS number_of_rows,
    AVG(order_details.quantity) AS average_quantity
FROM orders
INNER JOIN customers ON customers.id = orders.customer_id
INNER JOIN shippers ON shippers.id = orders.shipper_id
INNER JOIN employees ON employees.employee_id = orders.employee_id
INNER JOIN order_details ON order_details.order_id = orders.id
INNER JOIN products ON products.id = order_details.product_id
INNER JOIN suppliers ON suppliers.id = products.supplier_id
INNER JOIN categories ON categories.id = products.category_id
GROUP BY categories.name;
```



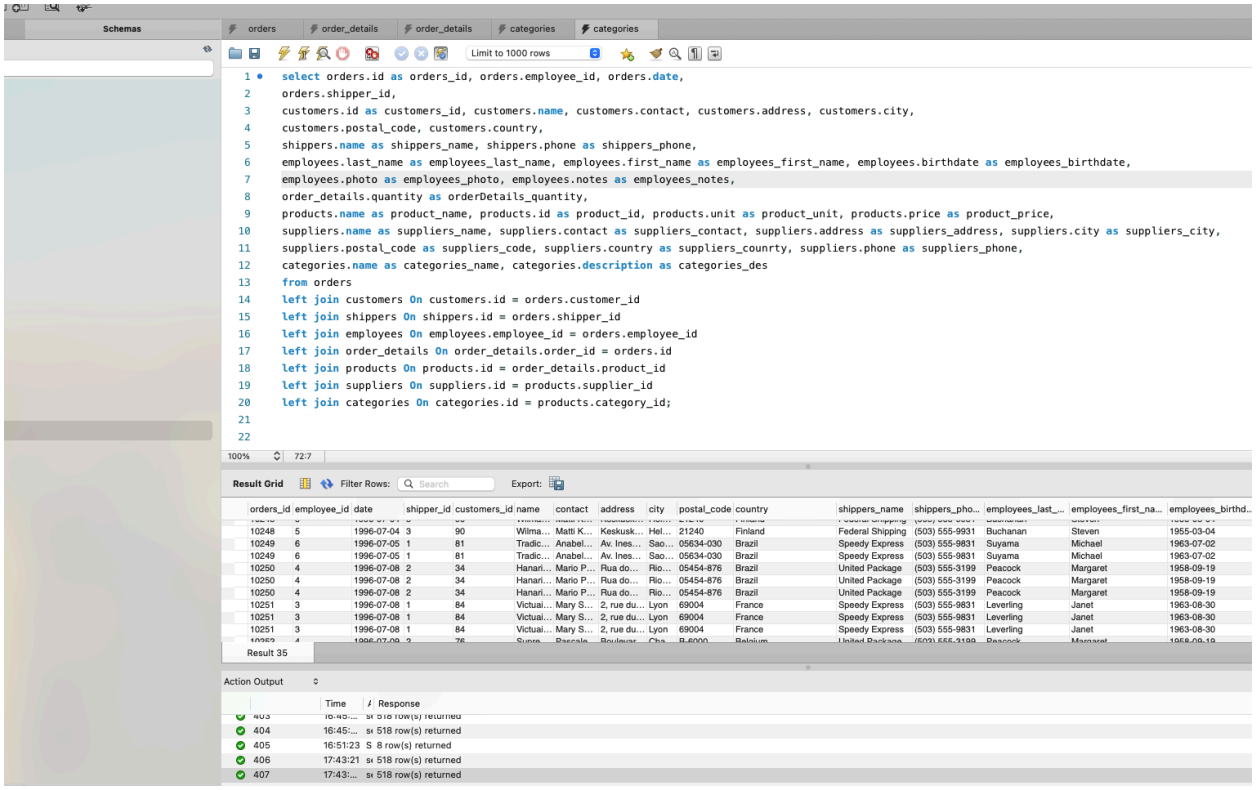
categories_na...	number_of_ro...	average_quantity
Beverages	93	24.6129
Dairy Products	100	26.0100
Grains/Cereals	42	21.7143
Seafood	67	21.5672
Confections	84	25.1190
Meat/Poultry	50	25.7600
Condiments	49	28.2245
Produce	33	21.6667

4.5 SELECT categories.name AS categories_name,

```
    COUNT(*) AS number_of_rows,
    AVG(order_details.quantity) AS average_quantity
FROM orders
INNER JOIN customers ON customers.id = orders.customer_id
INNER JOIN shippers ON shippers.id = orders.shipper_id
INNER JOIN employees ON employees.employee_id = orders.employee_id
INNER JOIN order_details ON order_details.order_id = orders.id
INNER JOIN products ON products.id = order_details.product_id
INNER JOIN suppliers ON suppliers.id = products.supplier_id
INNER JOIN categories ON categories.id = products.category_id
Where order_details.quantity <= 22
GROUP BY categories.name;
```

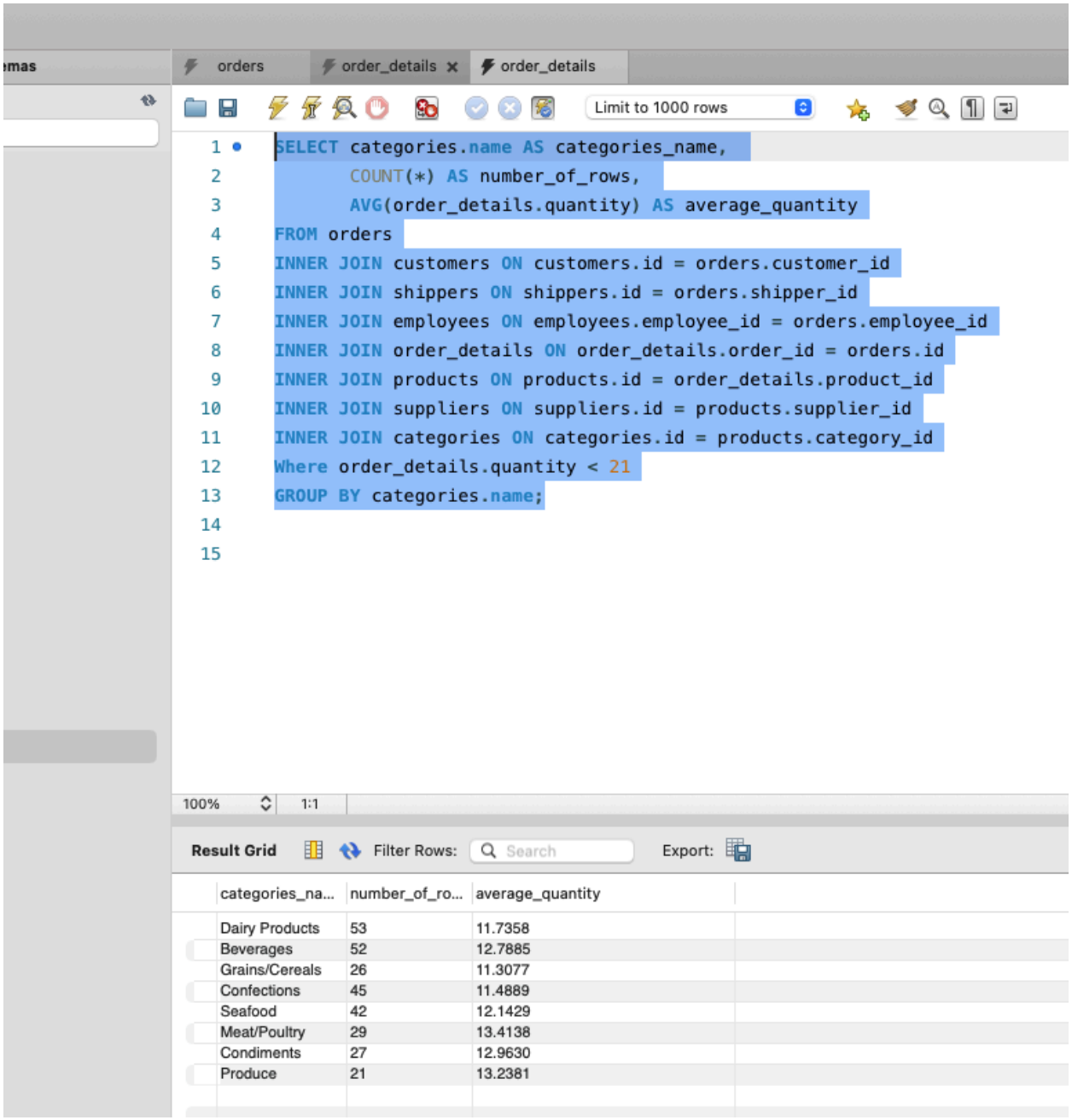


4.2 при використанні left join кількість рядків не змінюється. Тому що всі значення присутні в колонках



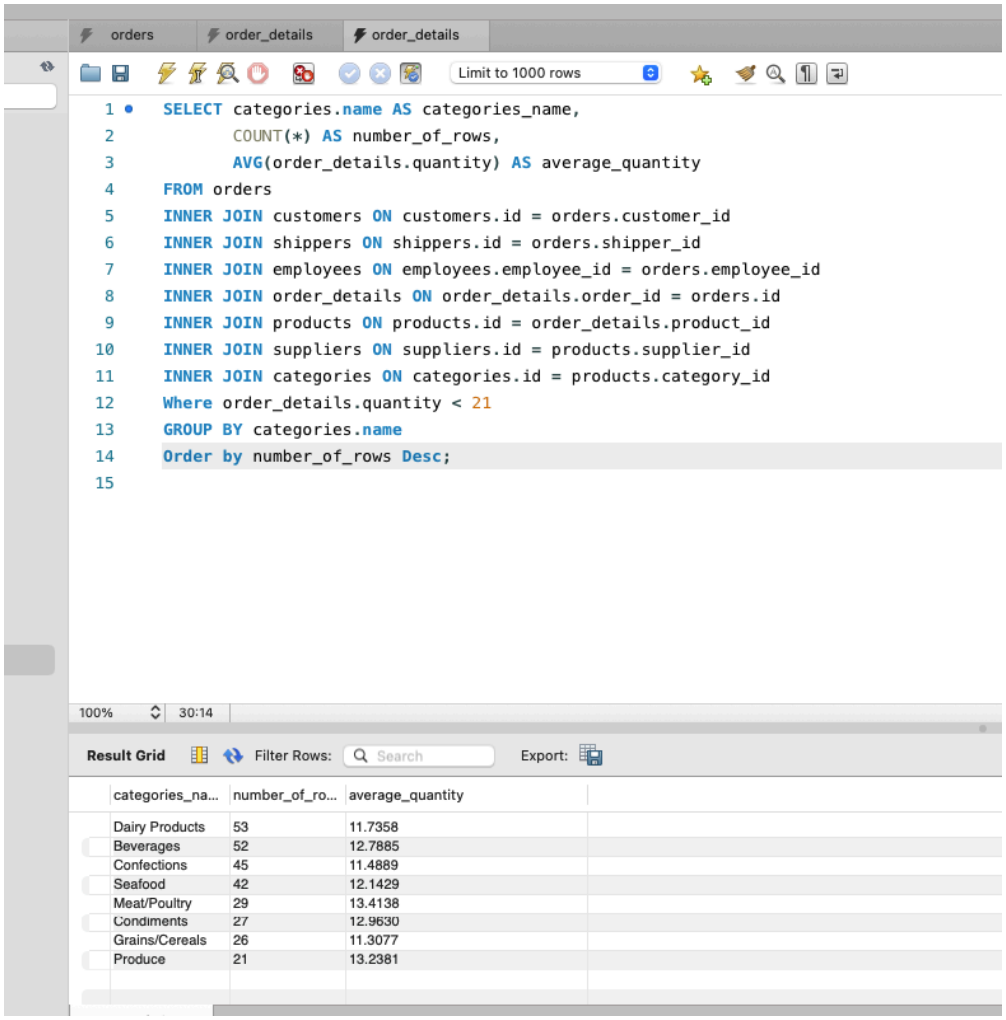
select orders.id as orders_id, orders.employee_id, orders.date,
orders.shipper_id,
customers.id as customers_id, customers.name, customers.contact, customers.address,
customers.city,
customers.postal_code, customers.country,
shippers.name as shippers_name, shippers.phone as shippers_phone,
employees.last_name as employees_last_name, employees.first_name as
employees_first_name, employees.birthdate as employees_birthdate,
employees.photo as employees_photo, employees.notes as employees_notes,
order_details.quantity as orderDetails_quantity,
products.name as product_name, products.id as product_id, products.unit as product_unit,
products.price as product_price,
suppliers.name as suppliers_name, suppliers.contact as suppliers_contact, suppliers.address
as suppliers_address, suppliers.city as suppliers_city,
suppliers.postal_code as suppliers_code, suppliers.country as suppliers_counrty,
suppliers.phone as suppliers_phone,
categories.name as categories_name, categories.description as categories_des
from orders

left join customers On customers.id = orders.customer_id
left join shippers On shippers.id = orders.shipper_id
left join employees On employees.employee_id = orders.employee_id
left join order_details On order_details.order_id = orders.id
left join products On products.id = order_details.product_id
left join suppliers On suppliers.id = products.supplier_id
left join categories On categories.id = products.category_id;

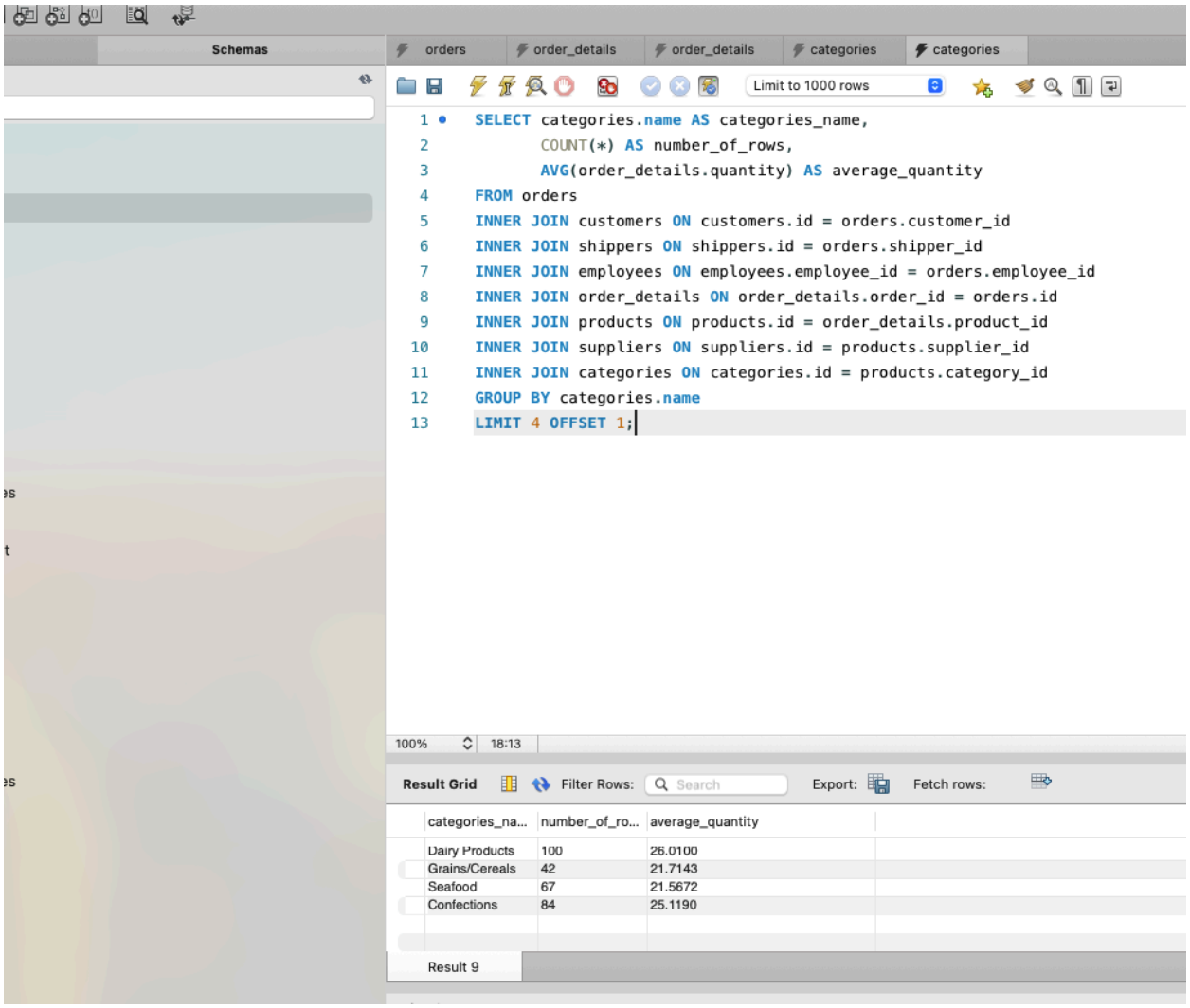


4.6

```
SELECT categories.name AS categories_name,
    COUNT(*) AS number_of_rows,
    AVG(order_details.quantity) AS average_quantity
FROM orders
INNER JOIN customers ON customers.id = orders.customer_id
INNER JOIN shippers ON shippers.id = orders.shipper_id
INNER JOIN employees ON employees.employee_id = orders.employee_id
INNER JOIN order_details ON order_details.order_id = orders.id
INNER JOIN products ON products.id = order_details.product_id
INNER JOIN suppliers ON suppliers.id = products.supplier_id
INNER JOIN categories ON categories.id = products.category_id
Where order_details.quantity < 21
GROUP BY categories.name
Order by number_of_rows Desc;
```


orders
order_details
order_details
Limit to 1000 rows
SELECT categories.name AS categories_name,
COUNT(*) AS number_of_rows,
AVG(order_details.quantity) AS average_quantity
FROM orders
INNER JOIN customers ON customers.id = orders.customer_id
INNER JOIN shippers ON shippers.id = orders.shipper_id
INNER JOIN employees ON employees.employee_id = orders.employee_id
INNER JOIN order_details ON order_details.order_id = orders.id
INNER JOIN products ON products.id = order_details.product_id
INNER JOIN suppliers ON suppliers.id = products.supplier_id
INNER JOIN categories ON categories.id = products.category_id
Where order_details.quantity < 21
GROUP BY categories.name
Order by number_of_rows Desc;
100%
30:14
Result Grid
Filter Rows:
Search
Export:
categories_na...
number_of_ro...
average_quantity
Dairy Products 53 11.7358
Beverages 52 12.7885
Confections 45 11.4889
Seafood 42 12.1429
Meat/Poultry 29 13.4138
Condiments 27 12.9630
Grains/Cereals 26 11.3077
Produce 21 13.2381

4.7




```
SELECT categories.name AS categories_name,
    COUNT(*) AS number_of_rows,
    AVG(order_details.quantity) AS average_quantity
FROM orders
INNER JOIN customers ON customers.id = orders.customer_id
INNER JOIN shippers ON shippers.id = orders.shipper_id
INNER JOIN employees ON employees.employee_id = orders.employee_id
INNER JOIN order_details ON order_details.order_id = orders.id
INNER JOIN products ON products.id = order_details.product_id
INNER JOIN suppliers ON suppliers.id = products.supplier_id
INNER JOIN categories ON categories.id = products.category_id
GROUP BY categories.name
```

```
LIMIT 4 OFFSET 1;
```