

STEPS

SORTING AND GROUPING DATA / JOINS AND UNION / FUNCTIONS / SUBQUERIES AND VIEWS

```

1 # USING COUNTRY TABLE AND PERSON TABLE
2
3 • SELECT * FROM Country;
4 • SELECT * FROM Persons;
5

```

ID	COUNTRY_NAME	POPULATION	AREA
1	USA	331000000	California
2	India	1380000000	Maharashtra
3	Canada	38000000	Ontario
4	Australia	25600000	New South Wales
5	UK	67000000	London
6	Germany	83000000	Bavaria

Country 1 x

Output

#	Time	Action
1	19:39:40	SELECT * FROM Country LIMIT 0, 1000

Message
12 row(s) returned

SORTING AND GROUPING DATA / JOINS AND UNION / FUNCTIONS / SUBQUERIES AND VIEWS

```

1 # USING COUNTRY TABLE AND PERSON TABLE
2
3 • SELECT * FROM Country;
4 • SELECT * FROM Persons;
5

```

ID	FNAME	LNAME	POPULATION	RATING	COUNTRY_ID	COUNTRY_NAME	DOB
1	John	Doe	1000000	4.5	1	USA	1990-05-15
2	Jane	Smith	2000000	4.8	2	India	1985-12-22
3	Michael	Brown	1500000	4.2	3	Canada	2000-03-10
4	Emily	Davis	2500000	3.9	4	Australia	1992-07-25
5	James	Wilson	1800000	4	5	UK	1988-11-30
6	Anna	Moore	1300000	4.6	6	Germany	1975-06-18

Persons 2 x

Output

#	Time	Action
1	19:39:40	SELECT * FROM Country LIMIT 0, 1000
2	19:40:57	SELECT * FROM Persons LIMIT 0, 1000

Message
12 row(s) returned
12 row(s) returned

Query 1 SORTING AND GROUPING DA... JOINs AND UNION FUNCTIONS SUBQUERIES AND VIEWS

```

5
6  # 1. Find the number of persons in each country.
7
8 • SELECT Country_name, COUNT(*) AS NumberOfPersons FROM Persons
9 GROUP BY Country_name;

```

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

Country_name	NumberOfPersons
USA	1
India	1
Canada	1
Australia	1
UK	1
Germany	1

Action Output

#	Time	Action	Message
1	19:39:40	SELECT * FROM Country LIMIT 0, 1000	12 row(s) returned
2	19:40:57	SELECT * FROM Persons LIMIT 0, 1000	12 row(s) returned
3	19:41:25	SELECT Country_name, COUNT(*) AS NumberOfPersons FROM Persons GROUP BY Country_name;	12 row(s) returned

Query 1 SORTING AND GROUPING DA... JOINs AND UNION FUNCTIONS SUBQUERIES AND VIEWS

```

11  # 2. Find the number of persons in each country sorted from high to low.
12
13 • SELECT Country_name, COUNT(*) AS NumberOfPersons FROM Persons
14 GROUP BY Country_name
15 ORDER BY NumberOfPersons DESC;

```

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

Country_name	NumberOfPersons
USA	1
India	1
Canada	1
Australia	1
UK	1
Germany	1

Action Output

#	Time	Action	Message
1	19:39:40	SELECT * FROM Country LIMIT 0, 1000	12 row(s) returned
2	19:40:57	SELECT * FROM Persons LIMIT 0, 1000	12 row(s) returned
3	19:41:25	SELECT Country_name, COUNT(*) AS NumberOfPersons FROM Persons GROUP BY Country_name;	12 row(s) returned
4	19:42:41	SELECT Country_name, COUNT(*) AS NumberOfPersons FROM Persons GROUP BY Country_name;	12 row(s) returned

Query 1 SORTING AND GROUPING DA... JOINs AND UNION FUNCTIONS SUBQUERIES AND VIEWS SQLAdditions

17 # 3. Find out an average rating for Persons in respective countries if the average is greater than
18
19 • SELECT Country_name, AVG(Rating) AS AverageRating FROM Persons
20 GROUP BY Country_name
21 HAVING AverageRating > 3.0 ;

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

Country_name	AverageRating
USA	4.5
India	4.80000190734863
Canada	4.19999809265137
Australia	3.9000000953674316
UK	4
Germany	4.59999994632568

Result 5 × Read Only Context Help Snippets

Action Output

#	Time	Action	Message
1	19:39:40	SELECT * FROM Country LIMIT 0, 1000	12 row(s) returned
2	19:40:57	SELECT * FROM Persons LIMIT 0, 1000	12 row(s) returned
3	19:41:25	SELECT Country_name, COUNT(*) AS NumberofPersons FROM Persons GROUP BY...	12 row(s) returned
4	19:42:41	SELECT Country_name, COUNT(*) AS NumberofPersons FROM Persons GROUP BY...	12 row(s) returned
5	19:43:13	SELECT Country_name, AVG(Rating) AS AverageRating FROM Persons GROUP BY...	12 row(s) returned

Query 1 SORTING AND GROUPING DA... JOINs AND UNION FUNCTIONS SUBQUERIES AND VIEWS SQLAdditions

23 # 4. Find the countries with the same rating as the USA. (Use Subqueries)

24
25 • SELECT Country_name
26 FROM Persons
27 WHERE Rating = (SELECT Rating FROM Persons WHERE Country_name = 'USA');

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

Country_name
USA

Persons 6 × Read Only Context Help Snippets

Action Output

#	Time	Action	Message
1	19:39:40	SELECT * FROM Country LIMIT 0, 1000	12 row(s) returned
2	19:40:57	SELECT * FROM Persons LIMIT 0, 1000	12 row(s) returned
3	19:41:25	SELECT Country_name, COUNT(*) AS NumberofPersons FROM Persons GROUP BY...	12 row(s) returned
4	19:42:41	SELECT Country_name, COUNT(*) AS NumberofPersons FROM Persons GROUP BY...	12 row(s) returned
5	19:43:13	SELECT Country_name, AVG(Rating) AS AverageRating FROM Persons GROUP BY...	12 row(s) returned
6	19:43:36	SELECT Country_name FROM Persons WHERE Rating = (SELECT Rating FROM P...	1 row(s) returned

Query 1 SORTING AND GROUPING DA... JOINs AND UNION FUNCTIONS SUBQUERIES AND VIEWS SQLAdditions

```

29  # 5. Select all countries whose population is greater than the average population of all nations.
30
31 •   SELECT Country_name
32   FROM Country
33   WHERE Population > (SELECT AVG(Population)FROM Country);
~-

```

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

Country_name
India
Turkey

Country 7 × Read Only Context Help Snippet

Output:

#	Time	Action	Message
2	19:40:57	SELECT * FROM Persons LIMIT 0, 1000	12 row(s) returned
3	19:41:25	SELECT Country_name, COUNT(*) AS NumberOfPersons FROM Persons GROUP ...	12 row(s) returned
4	19:42:41	SELECT Country_name, COUNT(*) AS NumberOfPersons FROM Persons GROUP ...	12 row(s) returned
5	19:43:13	SELECT Country_name, AVG(Rating) AS AverageRating FROM Persons GROUP ...	12 rows returned
6	19:43:36	SELECT Country_name FROM Persons WHERE Rating = (SELECT Rating FROM ...	1 row(s) returned
7	19:43:58	SELECT Country_name FROM Country WHERE Population > (SELECT AVG(Popul...)	2 row(s) returned

Object selected Object Info Session

Query 1 SORTING AND GROUPING DA... JOINs AND UNION FUNCTIONS SUBQUERIES AND VIEWS SQLAdditions

```

33 WHERE Population > (SELECT AVG(Population)FROM Country);
34
35 # VIEWS
36
37 • CREATE DATABASE Product ;
38 • USE Product ;
39
40 • CREATE TABLE Customer(
41   Customer_Id INT PRIMARY KEY,
42   First_name VARCHAR(25),
43   Last_name VARCHAR(25),
44   Email VARCHAR(100),
45   Phone_no VARCHAR (15),
46   Address VARCHAR (100),

```

Output:

#	Time	Action	Message
3	19:41:25	SELECT Country_name, COUNT(*) AS NumberOfPersons FROM Persons GROUP ...	12 row(s) returned
4	19:42:41	SELECT Country_name, COUNT(*) AS NumberOfPersons FROM Persons GROUP ...	12 row(s) returned
5	19:43:13	SELECT Country_name, AVG(Rating) AS AverageRating FROM Persons GROUP ...	12 rows returned
6	19:43:36	SELECT Country_name FROM Persons WHERE Rating = (SELECT Rating FROM ...	1 row(s) returned
7	19:43:58	SELECT Country_name FROM Country WHERE Population > (SELECT AVG(Popul...)	2 row(s) returned
8	19:44:23	CREATE DATABASE Product	1 row(s) affected

Object selected Object Info Session Context Help Snippet

Query 1 SORTING AND GROUPING DATA JOINs AND UNION FUNCTIONS SUBQUERIES AND VIEWS SQLAdditions

```

33 WHERE Population > (SELECT AVG(Population)FROM Country);
34
35 # VIEWS
36
37 • CREATE DATABASE Product ;
38 • USE Product ;
39
40 • CREATE TABLE Customer(
    Customer_Id INT PRIMARY KEY,
    First_name VARCHAR(25),
    Last_name VARCHAR(25),
    Email VARCHAR(100),
    Phone_no VARCHAR (15),
    Address VARCHAR (100),
41
42
43
44
45
46

```

No object selected

Output:

#	Time	Action	Message	Duration / Fets
4	19:42:41	SELECT Country_name, COUNT(*) AS NumberOfPersons FROM Persons GROUP ...	12 row(s) returned	0.00 sec / 0.
5	19:43:13	SELECT Country_name, AVG(Rating) AS AverageRating FROM Persons GROUP ...	12 row(s) returned	0.00 sec / 0.
6	19:43:36	SELECT Country_name FROM Persons WHERE Rating = (SELECT Rating FROM ...	1 row(s) returned	0.00 sec / 0.
7	19:43:58	SELECT Country_name FROM Country WHERE Population > (SELECT AVG(Popul...)	2 row(s) returned	0.00 sec / 0.
8	19:44:23	CREATE DATABASE Product	1 row(s) affected	0.016 sec
9	19:44:53	USE Product	0 row(s) affected	0.000 sec

Context Help Snippets

Query 1 SORTING AND GROUPING DATA JOINs AND UNION FUNCTIONS SUBQUERIES AND VIEWS SQLAdditions

```

40 • CREATE TABLE Customer(
    Customer_Id INT PRIMARY KEY,
    First_name VARCHAR(25),
    Last_name VARCHAR(25),
    Email VARCHAR(100),
    Phone_no VARCHAR (15),
    Address VARCHAR (100),
    City VARCHAR (50),
    State VARCHAR (50),
    Zip_code VARCHAR(10),
    Country VARCHAR (50)
);
52
53 • INSERT INTO Customer (Customer_Id, First_name, Last_name, Email, Phone_no, Address, City, State, Zi

```

No object selected

Output:

#	Time	Action	Message	Duration / Fets
5	19:43:13	SELECT Country_name, AVG(Rating) AS AverageRating FROM Persons GROUP ...	12 row(s) returned	0.000 sec / 0.
6	19:43:36	SELECT Country_name FROM Persons WHERE Rating = (SELECT Rating FROM ...	1 row(s) returned	0.000 sec / 0.
7	19:43:58	SELECT Country_name FROM Country WHERE Population > (SELECT AVG(Popul...)	2 row(s) returned	0.000 sec / 0.
8	19:44:23	CREATE DATABASE Product	1 row(s) affected	0.016 sec
9	19:44:53	USE Product	0 row(s) affected	0.000 sec
10	19:45:22	CREATE TABLE Customer(Customer_Id INT PRIMARY KEY, First_name VARCHAR...	0 row(s) affected	0.031 sec

Context Help Snippets

EMAS

Filter objects

- entri_dsmi_d36
- Tables
 - country
 - persons
- Views
- Stored Procedures
- Functions
- product
 - Tables
 - Views
 - Stored Procedures
 - Functions
- sales
- Administration Schemas
- Information

No object selected

Query 1 SORTING AND GROUPING DA... JOINS AND UNION FUNCTIONS SUBQUERIES AND VIEWS

```

56     'irk', 'New York', '10001', 'USA'),
57     'icago', 'Illinois', '60601', 'USA'),
58     'Sydney', 'New South Wales', '2000', 'Australia'),
59     'Berlin', 'Berlin', '10115', 'Germany'),
60     'Paris', 'ile-de-France', '75001', 'France'),
61     'Tokyo', 'Tokyo', '150-0001', 'Japan'),
62     'vd', 'Cape Town', 'Western Cape', '8001', 'South Africa'),
63     'sta', 'São Paulo', 'São Paulo', '01310-100', 'Brazil'),
64     'Hyderabad', 'Telangana', '500034', 'India'));

65
66 •
67
68 Full name and email address.
69

```

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Context Help Snippets

Action Output

#	Time	Action	Message	Duration / Fetch
6	19:43:36	SELECT Country_name FROM Persons WHERE Rating = (SELECT Rating FROM ...)	1 row(s) returned	0.000 sec / 0.000 s
7	19:43:58	SELECT Country_name FROM Country WHERE Population > (SELECT AVG(Popul...)	2 row(s) returned	0.000 sec / 0.000 s
8	19:44:23	CREATE DATABASE Product	1 row(s) affected	0.016 sec
9	19:44:53	USE Product	0 row(s) affected	0.000 sec
10	19:45:22	CREATE TABLE Customer(Customer_Id INT PRIMARY KEY, First_name VARCH...	0 row(s) affected	0.031 sec
11	19:46:05	INSERT INTO Customer (Customer_Id, First_name, Last_name, Email, Phone_no, ...)	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.016 sec

Output

Action Output

#	Time	Action	Message	Duration / Fetch
62	(8, 'Sneha', 'Gupta', 'sneha.gupta@example.com', '+27-723456789', '456 Nelson Mandela Blvd', 'Cape			
63	(9, 'Manish', 'Verma', 'manish.verma@example.com', '+55-11987654321', '789 Avenida Paulista', 'São			
64	(10, 'Anjali', 'Desai', 'anjali.desai@example.com', '+91-9988776655', '321 Banjara Hills', 'Hyderabad')			
65	66 • SELECT * FROM Customer;			

Result Grid

Customer_Id	First_name	Last_name	Email	Phone_no	Address	City
1	John	Doe	john.doe@example.com	+1-202550908	123 Elm St	Los Angeles
2	Jane	Smith	jane.smith@example.com	+1-202650188	456 Maple Ave	New York
3	Michael	Johnson	m.johnson@example.com	+1-202550188	789 Oak Blvd	Chicago
4	Aisha	Patel	aisha.patel@example.com	+61-412345678	321 George Street	Sydney
5	Vikram	Singh	vikram.singh@example.com	+49-15209876543	654 Hauptstrasse	Berlin

Customer 8

Output

Action Output

#	Time	Action	Message	Duration / Fetch
7	19:43:58	SELECT Country_name FROM Country WHERE Population > (SELECT AVG(Popul...)	2 row(s) returned	0.000 sec / 0.000 s
8	19:44:23	CREATE DATABASE Product	1 row(s) affected	0.016 sec
9	19:44:53	USE Product	0 row(s) affected	0.000 sec
10	19:45:22	CREATE TABLE Customer(Customer_Id INT PRIMARY KEY, First_name VARCH...	0 row(s) affected	0.031 sec
11	19:46:05	INSERT INTO Customer (Customer_Id, First_name, Last_name, Email, Phone_no, ...)	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.016 sec
12	19:46:26	SELECT * FROM Customer LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 s

Output

Action Output

#	Time	Action	Message	Duration
69	# Then perform the SELECT operation for the customer_info view.			
70				
71	• CREATE VIEW customer_info AS			
72	SELECT CONCAT(First_name, ' ', Last_name) AS Full_name, Email			
73	FROM Customer;			
74				
75	• SELECT * FROM customer_info;			
76				
77	# 2. Create a view named US_Customers that displays customers located in the US.			
78				
79	• CREATE VIEW US_Customers AS			
80	SELECT * FROM Customer			
81	WHERE Country = 'USA';			
82				

Output

Action Output

#	Time	Action	Message	Duration
8	19:44:23	CREATE DATABASE Product	1 row(s) affected	0.016 sec
9	19:44:53	USE Product	0 row(s) affected	0.000 sec
10	19:45:22	CREATE TABLE Customer(Customer_Id INT PRIMARY KEY, First_name VARCH...	0 row(s) affected	0.031 sec
11	19:46:05	INSERT INTO Customer (Customer_Id, First_name, Last_name, Email, Phone_no, ...)	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.016 sec
12	19:46:26	SELECT * FROM Customer LIMIT 0, 1000	10 row(s) returned	0.000 sec
13	19:46:58	CREATE VIEW customer_info AS SELECT CONCAT(First_name, ' ', Last_name) AS...	0 row(s) affected	0.015 sec

Navigators:

- HEDMAS**
- Tables**: country, persons
- Views**
- Stored Procedures**
- Functions**
- product**
- Tables**
- Views**
- Stored Procedures**
- Functions**
- sales**
- Administration**
- Schemas**

No object selected

Query 1 | SORTING AND GROUPING DATA | JOINS AND UNION | FUNCTIONS | SUBQUERIES AND VIEWS

```

71 • CREATE VIEW customer_info AS
72   SELECT CONCAT(first_name, ' ', last_name) AS Full_name, Email
    FROM Customer;
73
74
75 • SELECT * FROM customer_info;
  
```

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

Full_name	Email
John Doe	john.doe@example.com
Jane Smith	jane.smith@example.com
Michael Johnson	m.johnson@example.com
Aisha Patel	aisha.patel@example.com
Vikram Singh	vikram.singh@example.com
Sanya Reddy	sanya.reddy@example.com

customer_info 9 | Read Only | Context Help | Snippets

Action Output

#	Time	Action	Message	Duration / Fetch
9	19:44:53	USE Product	0 row(s) affected	0.000 sec
10	19:45:22	CREATE TABLE Customer(Customer_Id INT PRIMARY KEY, First_name VARCHAR...)	0 row(s) affected	0.031 sec
11	19:46:05	INSERT INTO Customer (Customer_Id, First_name, Last_name, Email, Phone_no, ...)	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.016 sec
12	19:46:26	SELECT * FROM Customer LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
13	19:46:58	CREATE VIEW customer_info AS SELECT CONCAT(first_name, ' ', last_name) A...	0 row(s) affected	0.015 sec
14	19:47:29	SELECT * FROM customer_info LIMIT 0, 1000	10 row(s) returned	0.015 sec / 0.000 sec

Select Info | **Session**

Navigators:

- SCHEMAS**
- Filter objects**
- Tables**: country, persons
- Views**
- Stored Procedures**
- Functions**
- product**
- Tables**
- Views**
- Stored Procedures**
- Functions**
- sales**
- Administration**
- Schemas**

No object selected

Query 1 | SORTING AND GROUPING DATA | JOINS AND UNION | FUNCTIONS | SUBQUERIES AND VIEWS

```

77 # 2. Create a view named US_Customers that displays customers located in the US.
78
79 • CREATE VIEW US_Customers AS
80   SELECT * FROM Customer
81   WHERE Country = 'USA';
82
83 • SELECT * FROM US_Customers;
84
85 # 3. Create another view named Customer_details with columns full_name(Combine first_name and last_
86
87 • CREATE VIEW Customer_details AS
88   SELECT CONCAT(first_name, ' ', last_name) AS Full_name, Email, Phone_no, State
89   FROM Customer;
90
  
```

Action Output

#	Time	Action	Message	Duration / Fetch
10	19:45:22	CREATE TABLE Customer(Customer_Id INT PRIMARY KEY, First_name VARCHAR...)	0 row(s) affected	0.031 sec
11	19:46:05	INSERT INTO Customer (Customer_Id, First_name, Last_name, Email, Phone_no, ...)	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.016 sec
12	19:46:26	SELECT * FROM Customer LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
13	19:46:58	CREATE VIEW customer_info AS SELECT CONCAT(first_name, ' ', last_name) A...	0 row(s) affected	0.015 sec
14	19:47:29	SELECT * FROM customer_info LIMIT 0, 1000	10 row(s) returned	0.015 sec / 0.000 sec
15	19:47:54	CREATE VIEW US_Customers AS SELECT * FROM Customer WHERE Country = ...	0 row(s) affected	0.016 sec

Select Info | **Session**

Navigators:

- SCHEMAS**
- Filter objects**
- Tables**: country, persons
- Views**
- Stored Procedures**
- Functions**
- product**
- Tables**
- Views**
- Stored Procedures**
- Functions**
- sales**
- Administration**
- Schemas**

No object selected

Query 1 | SORTING AND GROUPING DATA | JOINS AND UNION | FUNCTIONS | SUBQUERIES AND VIEWS

```

79 • CREATE VIEW US_Customers AS
80   SELECT * FROM Customer
81   WHERE Country = 'USA';
82
83 • SELECT * FROM US_Customers;
  
```

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

Customer_Id	First_name	Last_name	Email	Phone_no	Address	City	State	Zip
1	John	Doe	john.doe@example.com	+1-2025509008	123 Elm St	Los Angeles	California	900
2	Jane	Smith	jane.smith@example.com	+1-202650188	456 Maple Ave	New York	New York	100
3	Michael	Johnson	m.johnson@example.com	+1-202550188	789 Oak Blvd	Chicago	Illinois	606

US_Customers 10 | Read Only | Context Help | Snippets

Action Output

#	Time	Action	Message	Duration / Fetch
11	19:46:05	INSERT INTO Customer (Customer_Id, First_name, Last_name, Email, Phone_no, ...)	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.016 sec
12	19:46:26	SELECT * FROM Customer LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
13	19:46:58	CREATE VIEW customer_info AS SELECT CONCAT(first_name, ' ', last_name) A...	0 row(s) affected	0.015 sec
14	19:47:29	SELECT * FROM customer_info LIMIT 0, 1000	10 row(s) returned	0.015 sec / 0.000 sec
15	19:47:54	CREATE VIEW US_Customers AS SELECT * FROM Customer WHERE Country = ...	0 row(s) affected	0.016 sec
16	19:48:16	SELECT * FROM US_Customers LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec

Select Info | **Session**

Navigator: **ITEMAS**

Filter objects

- entri_dsmi_d36**
 - Tables
 - Views
 - Stored Procedures
- product**
 - Tables
 - Views
 - Stored Procedures
 - Functions
- sales**
- administration**
- Schemas**

No object selected

Object Info Session

Query 1 SORTING AND GROUPING DA... JOINS AND UNION FUNCTIONS SUBQUERIES AND VIEWS

SQLAdditions: Jump to Context Help Snippets

```

85  # 3. Create another view named Customer_details with columns full name(Combine first_name and last_
86
87 • CREATE VIEW Customer_details AS
88   SELECT CONCAT(first_name, ' ', last_name) AS Full_name, Email, Phone_no, State
89   FROM Customer;
90
91 • SELECT * FROM Customer_details;
92
93  # 4. Update phone numbers of customers who live in California for Customer_details view.
94
95 • SET SQL_SAFE_UPDATES = 0;
96 • UPDATE Customer
97   SET Phone_no = '+1-2029999999'
98   WHERE State = 'California';

```

Output:

Action Output	#	Time	Action	Message	Duration / Fetch
	12	19:46:26	SELECT * FROM Customer LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.
	13	19:46:58	CREATE VIEW customer_info AS SELECT CONCAT(first_name, ' ', last_name) AS Full_name, Email, Phone_no, State FROM Customer;	0 row(s) affected	0.015 sec
	14	19:47:29	SELECT * FROM customer_info LIMIT 0, 1000	10 row(s) returned	0.015 sec / 0.
	15	19:47:54	CREATE VIEW US_Customers AS SELECT * FROM Customer WHERE Country = 'USA'	0 row(s) affected	0.016 sec
	16	19:48:16	SELECT * FROM US_Customers LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.
	17	19:48:43	CREATE VIEW Customer_details AS SELECT CONCAT(first_name, ' ', last_name) AS Full_name, Email, Phone_no, State FROM Customer;	0 row(s) affected	0.015 sec

Navigator: **ITEMAS**

Filter objects

- entri_dsmi_d36**
 - Tables
 - Views
 - Stored Procedures
- product**
 - Tables
 - Views
 - Stored Procedures
 - Functions
- sales**
- administration**
- Schemas**

No object selected

Object Info Session

Query 1 SORTING AND GROUPING DA... JOINS AND UNION FUNCTIONS SUBQUERIES AND VIEWS

SQLAdditions: Jump to Context Help Snippets

```

87 • CREATE VIEW Customer_details AS
88   SELECT CONCAT(first_name, ' ', last_name) AS Full_name, Email, Phone_no, State
89   FROM Customer;
90
91 • SELECT * FROM Customer_details;

```

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

Full_name	Email	Phone_no	State
John Doe	john.doe@example.com	+1-2025550908	California
Jane Smith	jane.smith@example.com	+1-2026650188	New York
Michael Johnson	m.johnson@example.com	+1-2025550188	Illinois
Aisha Patel	aisha.patel@example.com	+61-412345678	New South Wales
Vikram Singh	vikram.singh@example.com	+49-15209876543	Berlin
Sanya Reddy	sanya.reddy@example.com	+33-612345678	Île-de-France

Customer_details11 x

Output:

Action Output	#	Time	Action	Message	Duration / Fetch
	13	19:46:58	CREATE VIEW customer_info AS SELECT CONCAT(first_name, ' ', last_name) AS Full_name, Email, Phone_no, State FROM Customer;	0 row(s) affected	0.015 sec
	14	19:47:29	SELECT * FROM customer_info LIMIT 0, 1000	10 row(s) returned	0.015 sec / 0.000 sec
	15	19:47:54	CREATE VIEW US_Customers AS SELECT * FROM Customer WHERE Country = 'USA'	0 row(s) affected	0.016 sec
	16	19:48:16	SELECT * FROM US_Customers LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
	17	19:48:43	CREATE VIEW Customer_details AS SELECT CONCAT(first_name, ' ', last_name) AS Full_name, Email, Phone_no, State FROM Customer;	0 row(s) affected	0.015 sec
	18	19:48:59	SELECT * FROM Customer_details LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec

Navigator: **ITEMAS**

Filter objects

- entri_dsmi_d36**
 - Tables
 - Views
 - Stored Procedures
- product**
 - Tables
 - Views
 - Stored Procedures
 - Functions
- sales**
- administration**
- Schemas**

No object selected

Object Info Session

Query 1 SORTING AND GROUPING DA... JOINS AND UNION FUNCTIONS SUBQUERIES AND VIEWS

SQLAdditions: Jump to Context Help Snippets

```

92
93  # 4. Update phone numbers of customers who live in California for Customer_details view.
94
95 • SET SQL_SAFE_UPDATES = 0;
96 • UPDATE Customer
97   SET Phone_no = '+1-2029999999'
98   WHERE State = 'California';
99
100 # 5. Count the number of customers in each state and show only states with more than 5 customers.
101
102 • SELECT State, COUNT(*) AS Customercount FROM Customer
103   GROUP BY State
104   HAVING Customercount > 5 ;
105

```

Output:

Action Output	#	Time	Action	Message	Duration / Fetch
	14	19:47:29	SELECT * FROM customer_info LIMIT 0, 1000	10 row(s) returned	0.015 sec / 0.
	15	19:47:54	CREATE VIEW US_Customers AS SELECT * FROM Customer WHERE Country = 'USA'	0 row(s) affected	0.016 sec
	16	19:48:16	SELECT * FROM US_Customers LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.
	17	19:48:43	CREATE VIEW Customer_details AS SELECT CONCAT(first_name, ' ', last_name) AS Full_name, Email, Phone_no, State FROM Customer;	0 row(s) affected	0.015 sec
	18	19:48:59	SELECT * FROM Customer_details LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.
	19	19:49:18	SET SQL_SAFE_UPDATES = 0	0 row(s) affected	0.000 sec

Navigat... Query 1 SORTING AND GROUPING DA... JOINS AND UNION FUNCTIONS SUBQUERIES AND VIEWS SQLAdditions

HEMAS

Filter objects

- entri_dsmi_d36
 - Tables
 - country
 - persons
 - Views
 - Stored Procedures
 - Functions
- product
 - Tables
 - Views
 - Stored Procedures
 - Functions
- sales
- Administration Schemas

No object selected

Output:

Action Output	#	Time	Action	Message	Duration / Fetch
15 19:47:54 CREATE VIEW US_Customers AS SELECT * FROM Customer WHERE Country = ...	15	19:47:54	0 row(s) affected	0.016 sec	
16 19:48:16 SELECT * FROM US_Customers LIMIT 0, 1000	16	19:48:16	3 row(s) returned	0.000 sec / 0.000 sec	
17 19:48:43 CREATE VIEW Customer_details AS SELECT CONCAT(First_name, '', Last_name...)	17	19:48:43	0 row(s) affected	0.015 sec	
18 19:48:59 SELECT * FROM Customer_details LIMIT 0, 1000	18	19:48:59	10 row(s) returned	0.000 sec / 0.000 sec	
19 19:49:18 SET SQL_SAFE_UPDATES = 0	19	19:49:18	0 row(s) affected	0.000 sec	
20 19:49:33 UPDATE Customer SET Phone_no = '+1-2029999999' WHERE State = 'California'	20	19:49:33	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.015 sec	

Select Info Session

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Navigat... Query 1 SORTING AND GROUPING DA... JOINS AND UNION FUNCTIONS SUBQUERIES AND VIEWS SQLAdditions

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Output:

Action Output	#	Time	Action	Message	Duration
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17 19:48:43 CREATE VIEW Customer_details AS SELECT CONCAT(First_name, '', Last_name...)	17	19:48:43	0 row(s) affected	0.015 sec	
18 19:48:59 SELECT * FROM Customer_details LIMIT 0, 1000	18	19:48:59	10 row(s) returned	0.000 sec	
19 19:49:18 SET SQL_SAFE_UPDATES = 0	19	19:49:18	0 row(s) affected	0.000 sec	
20 19:49:33 UPDATE Customer SET Phone_no = '+1-2029999999' WHERE State = 'California'	20	19:49:33	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.015 sec	
21 19:49:50 SELECT State, COUNT(*) AS Customercount FROM Customer GROUP BY State H...	21	19:49:50	0 row(s) returned	0.000 sec	

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

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Navigat... Query 1 SORTING AND GROUPING DA... JOINS AND UNION FUNCTIONS SUBQUERIES AND VIEWS SQLAdditions

HEMAS

Filter objects

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Output:

Action Output	#	Time	Action	Message	Duration
17 19:48:43 CREATE VIEW Customer_details AS SELECT CONCAT(First_name, '', Last_name...)	17	19:48:43	0 row(s) affected	0.000 sec	
18 19:48:59 SELECT * FROM Customer_details LIMIT 0, 1000	18	19:48:59	10 row(s) returned	0.000 sec	
19 19:49:18 SET SQL_SAFE_UPDATES = 0	19	19:49:18	0 row(s) affected	0.000 sec	
20 19:49:33 UPDATE Customer SET Phone_no = '+1-2029999999' WHERE State = 'California'	20	19:49:33	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.015 sec	
21 19:49:50 SELECT State, COUNT(*) AS Customercount FROM Customer GROUP BY State H...	21	19:49:50	0 row(s) returned	0.000 sec	
22 19:50:18 SELECT State, COUNT(*) AS Customercount FROM Customer_details GROUP BY...	22	19:50:18	10 row(s) returned	0.000 sec	

Select Info Session

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File Edit View Query Database Server Tools Scripting Help

Navigator: entri_dsmi_d36

SCHEMAS

- Filter objects
- Tables
 - country
 - persons
- Views
- Stored Procedures
- Functions

product

- Tables
- Views
- Stored Procedures
- Functions

sales

Administration Schemas

Information

No object selected

Query 1 SORTING AND GROUPING DA... JOINs AND UNION FUNCTIONS SUBQUERIES AND VIEWS

111
112 # 7. Write a query that returns all the columns from the "customer_details" view, sorted by the "s
113
114 • SELECT * FROM Customer_details
115 ORDER BY State ASC;

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

Full_name	Email	Phone_no	State
Vikram Singh	vikram.singh@example.com	+49-15209876543	Berlin
John Doe	john.doe@example.com	+1-2029999999	California
Sanya Reddy	sanya.reddy@example.com	+33-612345678	Île-de-France
Michael Johnson	m.johnson@example.com	+1-202550188	Illinois
Aisha Patel	aisha.patel@example.com	+61-412345678	New South Wales
Jane Smith	jane.smith@example.com	+1-2026650188	New York

Customer_details 14 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
18	19:48:59	SELECT * FROM Customer_details LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.00
19	19:49:18	SET SQL_SAFE_UPDATES = 0	0 row(s) affected	0.000 sec
20	19:49:33	UPDATE Customer SET Phone_no = '+1-2029999999' WHERE State = 'California'	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.015 sec
21	19:49:50	SELECT State, COUNT(*) AS CustomerCount FROM Customer GROUP BY State H...	0 row(s) returned	0.000 sec / 0.00
22	19:50:18	SELECT State, COUNT(*) AS CustomerCount FROM Customer_details GROUP BY...	10 row(s) returned	0.000 sec / 0.00
23	19:50:35	SELECT * FROM Customer_details ORDER BY State ASC LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.00

Result Grid Form Editor

Read Only Context Help Snippets

Object Info Session

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