

STEPS

The screenshot shows the SQL Server Enterprise Manager interface. The left pane displays the 'entri_dsml_d36' database structure. The central query editor shows the following SQL code:

```
1 CREATE TABLE Country (  
2   Id INT PRIMARY KEY,  
3   Country_name VARCHAR(50),  
4   Population INT,  
5   Area VARCHAR(50)  
6 );  
7  
8 CREATE TABLE Persons (  
9   Id INT PRIMARY KEY,  
10  Fname VARCHAR(30),  
11  Lname VARCHAR(30),  
12  Population INT,  
13  Rating FLOAT,  
14  Country_Id INT,
```

The right pane shows a message: "Automatic context help disabled. Use the toolbar to manually get help for the current caret position or toggle automatic help." The bottom output pane shows the execution results:

#	Time	Action	Message	Duration
1	12:31:41	CREATE TABLE Country (Id INT PRIMARY KEY, Country_name VARCHAR(50), Pop...	0 row(s) affected	0.016 s

The screenshot shows the SQL Server Enterprise Manager interface. The left pane displays the 'entri_dsml_d36' database structure. The central query editor shows the following SQL code:

```
5   Area VARCHAR(50)  
6 );  
7  
8 CREATE TABLE Persons (  
9   Id INT PRIMARY KEY,  
10  Fname VARCHAR(30),  
11  Lname VARCHAR(30),  
12  Population INT,  
13  Rating FLOAT,  
14  Country_Id INT,  
15  Country_name VARCHAR(50),  
16  FOREIGN KEY (Country_Id) REFERENCES Country(Id)  
17 );  
18
```

The right pane shows a message: "Automatic context help disabled. Use the toolbar to manually get help for the current caret position or toggle automatic help." The bottom output pane shows the execution results:

#	Time	Action	Message
1	12:31:41	CREATE TABLE Country (Id INT PRIMARY KEY, Country_name VARCHAR(50), Pop...	0 row(s) affected
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The screenshot shows the SQL Server Enterprise Manager interface. The left pane displays the 'entri_dsml_d36' database structure. The central query editor shows the following SQL code:

```
18  
19 INSERT INTO Country (Id, Country_name, Population, Area) VALUES  
20 (1, 'USA', 331000000, 'California'),  
21 (2, 'India', 1380000000, 'Maharashtra'),  
22 (3, 'Canada', 38000000, 'Ontario'),  
23 (4, 'Australia', 25600000, 'New South Wales'),  
24 (5, 'UK', 67000000, 'London'),  
25 (6, 'Germany', 83000000, 'Bavaria'),  
26 (7, 'France', 67000000, 'Île-de-France'),  
27 (8, 'Japan', 125000000, 'Tokyo'),  
28 (9, 'Brazil', 213000000, 'São Paulo'),  
29 (10, 'South Africa', 60000000, 'Gauteng');  
30  
31 INSERT INTO Persons (Id, Fname, Lname, Population, Rating, Country_Id, Country name)
```

The right pane shows a message: "Automatic context help disabled. Use the toolbar to manually get help for the current caret position or toggle automatic help." The bottom output pane shows the execution results:

#	Time	Action	Message
1	12:31:41	CREATE TABLE Country (Id INT PRIMARY KEY, Country_name VARCHAR(50), Pop...	0 row(s) affected
2	12:32:04	CREATE TABLE Persons (Id INT PRIMARY KEY, Fname VARCHAR(30), Lname VA...	0 row(s) affected
3	12:32:54	INSERT INTO Country (Id, Country_name, Population, Area) VALUES (1, 'USA', 3310...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0

Navigator: Filter objects

entri_dsml_d36

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

sales

- Tables
- Views
- Stored Procedures
- Functions

school

Administration Schemas

Information

No object selected

Query 1 SORTING AND GROUPING DA

Limit to 1000 rows

```

31 • INSERT INTO Persons (Id, Fname, Lname, Population, Rating, Country_Id, Country_name)
32 VALUES
33 (1, 'John', 'Doe', 1000000, 4.5, 1, 'USA'),
34 (2, 'Jane', 'Smith', 2000000, 4.8, 2, 'India'),
35 (3, 'Michael', 'Brown', 1500000, 4.2, 3, 'Canada'),
36 (4, 'Emily', 'Davis', 2500000, 3.9, 4, 'Australia'),
37 (5, 'James', 'Wilson', 1800000, 4.0, 5, 'UK'),
38 (6, 'Anna', 'Moore', 1300000, 4.6, 6, 'Germany'),
39 (7, 'Robert', 'Taylor', 1700000, 3.7, 7, 'France'),
40 (8, 'Linda', 'Anderson', 1400000, 4.9, 8, 'Japan'),
41 (9, 'David', 'Thomas', 2100000, 3.8, 9, 'Brazil'),
42 (10, 'Sarah', 'Jackson', 1600000, 4.3, 10, 'South Africa');
43
44 • SELECT * FROM Country;

```

SQLAdditions

Automatic context help disabled. Use the tool manually get help for current caret position toggle automatic help

Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration
1	12:31:41	CREATE TABLE Country (Id INT PRIMARY KEY, Country_name VARCHAR(50), Pop...	0 row(s) affected	0.016
2	12:32:04	CREATE TABLE Persons (Id INT PRIMARY KEY, Fname VARCHAR(30), Lname VA...	0 row(s) affected	0.047
3	12:32:54	INSERT INTO Country (Id, Country_name, Population, Area) VALUES (1, 'USA', 3310...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.016
4	12:33:16	INSERT INTO Persons (Id, Fname, Lname, Population, Rating, Country_Id, Country_n...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.031

Navigator: Filter objects

entri_dsml_d36

- Tables
 - country
 - persons
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- Stored Procedures
- Functions

sales

- Tables
- Views
- Stored Procedures
- Functions

school

Administration Schemas

Information

No object selected

Query 1 SORTING AND GROUPING DA

Limit to 1000 rows

```

40 (8, 'Linda', 'Anderson', 1400000, 4.9, 8, 'Japan'),
41 (9, 'David', 'Thomas', 2100000, 3.8, 9, 'Brazil'),
42 (10, 'Sarah', 'Jackson', 1600000, 4.3, 10, 'South Africa');
43
44 • SELECT * FROM Country;

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SQLAdditions

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Context Help Snippets

Output

Action Output

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4	12:33:16	INSERT INTO Persons (Id, Fname, Lname, Population, Rating, Country_Id, Country_...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.031
5	14:22:44	SELECT * FROM Country LIMIT 0, 1000	10 row(s) returned	

Result Grid

	Id	Country_name	Population	Area
1	USA	331000000	California	
2	India	1380000000	Maharashtra	
3	Canada	380000000	Ontario	
4	Australia	256000000	New South Wales	
5	UK	670000000	London	
6	Germany	830000000	Bavaria	London

Country 1 x

Apply Revert Context Help Snip

File Edit View Query Database Server Tools Scripting Help

Navigator: Filter objects

SCHEMAS

- entri_dsml_d36
 - country
 - persons
 - Views
 - Stored Procedures
 - Functions
- sales
 - Tables
 - Views
 - Stored Procedures
 - Functions
- school

Administration Schemas

Information: No object selected

Query 1: SORTING AND GROUPING DA...

Limit to 1000 rows

```

41 (9, 'David', 'Thomas', 2100000, 3.8, 9, 'Brazil'),
42 (10, 'Sarah', 'Jackson', 1600000, 4.3, 10, 'South Africa');
43
44 SELECT * FROM Country;
45 SELECT * FROM Persons;

```

Result Grid

Id	Fname	Lname	Population	Rating	Country_Id	Country_name
1	John	Doe	1000000	4.5	1	USA
2	Jane	Smith	2000000	4.8	2	India
3	Michael	Brown	1500000	4.2	3	Canada
4	Emily	Davis	2500000	3.9	4	Australia
5	James	Wilson	1800000	4	5	UK
6	Anna	Moore	1300000	4.6	6	Germany

Persons 2

Output: Action Output

#	Time	Action	Message
✓ 1	12:31:41	CREATE TABLE Country (Id INT PRIMARY KEY, Country_name VARCHAR(50), Po...	0 row(s) affected
✓ 2	12:32:04	CREATE TABLE Persons (Id INT PRIMARY KEY, Fname VARCHAR(30), Lname VA...	0 row(s) affected
✓ 3	12:32:54	INSERT INTO Country (Id, Country_name, Population, Area) VALUES (1, 'USA', 331...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0
✓ 4	12:33:16	INSERT INTO Persons (Id, Fname, Lname, Population, Rating, Country_Id, Country_...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0
✓ 5	14:22:44	SELECT * FROM Country LIMIT 0, 1000	10 row(s) returned
✓ 6	14:23:12	SELECT * FROM Persons LIMIT 0, 1000	10 row(s) returned

Object Info Session

Automatic control disabled. Use the manually get current caret position toggle automatic

Navigator: Filter objects

HEMAS

- entri_dsml_d36
 - country
 - persons
 - Views
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 - Tables
 - Views
 - Stored Procedures
 - Functions
- school

Administration Schemas

Information: No object selected

Query 1: SORTING AND GROUPING DA...

Limit to 1000 rows

```

45 SELECT * FROM Persons;
46
47 # 1. Write an SQL query to print the first three characters of Country_name from the Country table.
48
49 SELECT LEFT(Country_name, 3) AS FirstThreeCharacters FROM Country;

```

Result Grid

FirstThreeCharacters
USA
Ind
Can
Aus
UK
Ger

Result 3

Output: Action Output

#	Time	Action	Message
✓ 2	12:32:04	CREATE TABLE Persons (Id INT PRIMARY KEY, Fname VARCHAR(30), Lname ...	0 row(s) affected
✓ 3	12:32:54	INSERT INTO Country (Id, Country_name, Population, Area) VALUES (1, 'USA', 33...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0
✓ 4	12:33:16	INSERT INTO Persons (Id, Fname, Lname, Population, Rating, Country_Id, Country_...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0
✓ 5	14:22:44	SELECT * FROM Country LIMIT 0, 1000	10 row(s) returned
✓ 6	14:23:12	SELECT * FROM Persons LIMIT 0, 1000	10 row(s) returned
✓ 7	14:27:42	SELECT LEFT(Country_name, 3) AS FirstThreeCharacters FROM Country LIMIT 0, ...	10 row(s) returned

Object Info Session

Automatic control disabled. Use the manually get current caret position toggle automatic

vigator

HEMAS

Filter objects

entri_dsml_d36

Tables

country

persons

Views

Stored Procedures

Functions

sales

Tables

Views

Stored Procedures

Functions

school

Administration

Schemas

Information

No object selected

Query 1 SORTING AND GROUPING DA

Limit to 1000 rows

49 • SELECT LEFT(Country_name, 3) AS FirstThreeCharacters FROM Country;

50

51 # 2. Write an SQL query to concatenate first name and last name from Persons table.

52

53 • SELECT concat(Fname, ' ', Lname) AS Full_Name FROM Persons;

54

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Full_Name

John Doe

Jane Smith

Michael Brown

Emily Davis

James Wilson

Anna Moore

Result 4

Read Only

Context Help

Snippets

Output

Action Output

#	Time	Action	Message	Duration
3	12:32:54	INSERT INTO Country (Id, Country_name, Population, Area) VALUES (1, 'USA', 33...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.016:
4	12:33:16	INSERT INTO Persons (Id, Fname, Lname, Population, Rating, Country_Id, Country...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.031:
5	14:22:44	SELECT * FROM Country LIMIT 0, 1000	10 row(s) returned	0.000:
6	14:23:12	SELECT * FROM Persons LIMIT 0, 1000	10 row(s) returned	0.000:
7	14:27:42	SELECT LEFT(Country_name, 3) AS FirstThreeCharacters FROM Country LIMIT 0, ...	10 row(s) returned	0.000:
8	14:28:59	SELECT concat(Fname, ' ', Lname) AS Full_Name FROM Persons LIMIT 0, 1000	10 row(s) returned	0.016:

Object Info

Session

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

Navigator

HEMAS

Filter objects

entri_dsml_d36

Tables

country

persons

Views

Stored Procedures

Functions

sales

Tables

Views

Stored Procedures

Functions

school

Administration

Schemas

Information

No object selected

Query 1 SORTING AND GROUPING DA

Limit to 1000 rows

54

55 # 3. Write an SQL query to count the number of unique country names from Persons table.

56

57 • SELECT COUNT(DISTINCT Country_name) AS UniqueCountryName FROM Persons;

58

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

UniqueCountryName

10

Result 5

Read Only

Context Help

Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
4	12:33:16	INSERT INTO Persons (Id, Fname, Lname, Population, Rating, Country_Id, Country...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.031 sec
5	14:22:44	SELECT * FROM Country LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
6	14:23:12	SELECT * FROM Persons LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
7	14:27:42	SELECT LEFT(Country_name, 3) AS FirstThreeCharacters FROM Country LIMIT 0, ...	10 row(s) returned	0.000 sec / 0.000 sec
8	14:28:59	SELECT concat(Fname, ' ', Lname) AS Full_Name FROM Persons LIMIT 0, 1000	10 row(s) returned	0.016 sec / 0.000 sec
9	14:32:49	SELECT COUNT(DISTINCT Country_name) AS UniqueCountryName FROM Perso...	1 row(s) returned	0.016 sec / 0.000 sec

Object Info

Session

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

Navigator: SCHEMAS Filter objects entri_dsml_d36 Tables country persons Views Stored Procedures Functions sales Tables Views Stored Procedures Functions school Administration Schemas Information No object selected

Query 1 SORTING AND GROUPING DA Limit to 1000 rows

```
57 • SELECT COUNT(DISTINCT Country_name) AS UniqueCountryName FROM Persons;
58
59 # 4. Write a query to print the maximum population from the Country table.
60
61 • SELECT max(Population) AS MaximumPopulation FROM Country;
```

Result Grid Filter Rows: Export: Wrap Cell Contents

MaximumPopulation
1380000000

Result 6 x Read Only Context Help Snippets

Output Action Output

#	Time	Action	Message	Duration / Fetch
5	14:22:44	SELECT * FROM Country LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.00
6	14:23:12	SELECT * FROM Persons LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.00
7	14:27:42	SELECT LEFT(Country_name, 3) AS FirstThreeCharacters FROM Country LIMIT 0, ...	10 row(s) returned	0.000 sec / 0.00
8	14:28:59	SELECT concat(Fname, ' ' Lname) AS Full_Name FROM Persons LIMIT 0, 1000	10 row(s) returned	0.016 sec / 0.00
9	14:32:49	SELECT COUNT(DISTINCT Country_name) AS UniqueCountryName FROM Perso...	1 row(s) returned	0.016 sec / 0.00
10	14:33:45	SELECT max(Population) AS MaximumPopulation FROM Country LIMIT 0, 1000	1 row(s) returned	0.016 sec / 0.00

Object Info Session

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Navigator: SCHEMAS Filter objects entri_dsml_d36 Tables country persons Views Stored Procedures Functions sales Tables Views Stored Procedures Functions school Administration Schemas Information No object selected

Query 1 SORTING AND GROUPING DA Limit to 1000 rows

```
62
63 # 5. Write a query to print the minimum population from Persons table.
64
65 • SELECT min(Population) AS MinimumPopulation FROM Persons;
66
```

Result Grid Filter Rows: Export: Wrap Cell Contents

MinimumPopulation
1000000

Result 7 x Read Only Context Help Snippets

Output Action Output

#	Time	Action	Message	Duration / Fetch
6	14:23:12	SELECT * FROM Persons LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.00
7	14:27:42	SELECT LEFT(Country_name, 3) AS FirstThreeCharacters FROM Country LIMIT 0, ...	10 row(s) returned	0.000 sec / 0.00
8	14:28:59	SELECT concat(Fname, ' ' Lname) AS Full_Name FROM Persons LIMIT 0, 1000	10 row(s) returned	0.016 sec / 0.00
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Object Info Session

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Navigator: SCHEMAS Filter objects entri_dsml_d36 Tables country persons Views Stored Procedures Functions sales Tables Views Stored Procedures Functions school Administration Schemas Information No object selected

Query 1 SORTING AND GROUPING DA Limit to 1000 rows

```
69
70 # Foreign key Constrains
71 • INSERT INTO Country (Id, Country_name, Population, Area) VALUES
72 (11, 'UAE', 331500000, 'Abu Dhabi'),
73 (12, 'Turkey', 1385000000, 'Istanbul');
74
75 • INSERT INTO Persons (Id, Fname, Lname, Population, Rating, Country_Id, Country_name) VALUES
76 (11, 'Janice', NULL, 1200000, 4.6, 11, 'UAE'),
77 (12, 'Richie', NULL, 2200000, 4.9, 12, 'Turkey');
78
79 • SELECT count(Lname) FROM Persons WHERE Lname IS NOT NULL;
80
81 # 7. Write a query to find the number of rows in the Persons table.
82
```

Result Grid Filter Rows: Export: Wrap Cell Contents

Result 12 x Read Only Context Help Snippets

Output Action Output

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7	14:27:42	SELECT LEFT(Country_name, 3) AS FirstThreeCharacters FROM Country LIMIT 0, ...	10 row(s) returned	0.000 sec / 0.00
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9	14:32:49	SELECT COUNT(DISTINCT Country_name) AS UniqueCountryName FROM Perso...	1 row(s) returned	0.016 sec / 0.00
10	14:33:45	SELECT max(Population) AS MaximumPopulation FROM Country LIMIT 0, 1000	1 row(s) returned	0.016 sec / 0.00
11	14:34:17	SELECT min(Population) AS MinimumPopulation FROM Persons LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.00
12	14:34:48	INSERT INTO Country (Id, Country_name, Population, Area) VALUES (11, 'UAE', 3...	2 row(s) affected Records: 2 Duplicates: 0 Warnings: 0	0.031 sec

Object Info Session

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

File Edit View Query Database Server Tools Scripting Help

Navigator: Filter objects

entri_dsml_d36

- Tables
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- school

Administration Schemas

No object selected

Query 1 SORTING AND GROUPING DA

Limit to 1000 rows

```

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76 (11, 'Janice', NULL, 1200000, 4.6, 11, 'UAE'),
77 (12, 'Richie', NULL, 2200000, 4.9, 12, 'Turkey');
78
79 • SELECT count(Lname) FROM Persons WHERE Lname IS NOT NULL;
80
81 # 7. Write a query to find the number of rows in the Persons table.
82

```

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

Output: Action Output

#	Time	Action	Message	Duration / Fetch
8	14:28:59	SELECT concat(Fname, ' ' Lname) AS Full_Name FROM Persons LIMIT 0, 1000	10 row(s) returned	0.016 sec / 0.000 sec
9	14:32:49	SELECT COUNT(DISTINCT Country_name) AS UniqueCountryName FROM Persons	1 row(s) returned	0.016 sec / 0.000 sec
10	14:33:45	SELECT max(Population) AS MaximumPopulation FROM Country LIMIT 0, 1000	1 row(s) returned	0.016 sec / 0.000 sec
11	14:34:17	SELECT min(Population) AS MinimumPopulation FROM Persons LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
12	14:34:48	INSERT INTO Country (Id, Country_name, Population, Area) VALUES (11, 'UAE', 331500000, 'Abu Dhabi'), (12, 'Turkey', 1385000000, 'Istanbul');	2 row(s) affected Records: 2 Duplicates: 0 Warnings: 0	0.031 sec
13	14:35:15	INSERT INTO Persons (Id, Fname, Lname, Population, Rating, Country_Id, Country_name) VALUES (11, 'Janice', NULL, 1200000, 4.6, 11, 'UAE'), (12, 'Richie', NULL, 2200000, 4.9, 12, 'Turkey');	2 row(s) affected Records: 2 Duplicates: 0 Warnings: 0	0.000 sec

Object Info Session

File Edit View Query Database Server Tools Scripting Help

Navigator: Filter objects

entri_dsml_d36

- Tables
 - country
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 - Tables
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- school

Administration Schemas

No object selected

Query 1 SORTING AND GROUPING DA

Limit to 1000 rows

```

75 • INSERT INTO Persons (Id, Fname, Lname, Population, Rating, Country_Id, Country_name) VALUES
76 (11, 'Janice', NULL, 1200000, 4.6, 11, 'UAE'),
77 (12, 'Richie', NULL, 2200000, 4.9, 12, 'Turkey');
78
79 • SELECT count(Lname) FROM Persons WHERE Lname IS NOT NULL;
80

```

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

Result Grid

count(Lname)
10

Result 8 x Read Only

Output: Action Output

#	Time	Action	Message	Duration / Fetch
9	14:32:49	SELECT COUNT(DISTINCT Country_name) AS UniqueCountryName FROM Persons	1 row(s) returned	0.016 sec / 0.000 s
10	14:33:45	SELECT max(Population) AS MaximumPopulation FROM Country LIMIT 0, 1000	1 row(s) returned	0.016 sec / 0.000 s
11	14:34:17	SELECT min(Population) AS MinimumPopulation FROM Persons LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 s
12	14:34:48	INSERT INTO Country (Id, Country_name, Population, Area) VALUES (11, 'UAE', 331500000, 'Abu Dhabi'), (12, 'Turkey', 1385000000, 'Istanbul');	2 row(s) affected Records: 2 Duplicates: 0 Warnings: 0	0.031 sec
13	14:35:15	INSERT INTO Persons (Id, Fname, Lname, Population, Rating, Country_Id, Country_name) VALUES (11, 'Janice', NULL, 1200000, 4.6, 11, 'UAE'), (12, 'Richie', NULL, 2200000, 4.9, 12, 'Turkey');	2 row(s) affected Records: 2 Duplicates: 0 Warnings: 0	0.000 sec
14	14:35:36	SELECT count(Lname) FROM Persons WHERE Lname IS NOT NULL LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 s

Object Info Session

Navigator: Filter objects

- entri_dsml_d36
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 - Functions
- school
 - Tables
 - Views
 - Stored Procedures
 - Functions
- Administration
 - Schemas

No object selected

Query 1: SORTING AND GROUPING DA

Limit to 1000 rows

```

88
89 # 9. Write a query to print 3 random rows of countries. (Hint: Use rand() function and LIMIT)
90
91 • SELECT * FROM Country
92 ORDER BY rand() LIMIT 3;

```

Result Grid

	Id	Country_name	Population	Area
▶	6	Germany	83000000	Bavaria
	3	Canada	38000000	Ontario
	10	South Africa	60000000	Gauteng
*	NULL	NULL	NULL	NULL

Country 11 x

Output: Action Output

#	Time	Action	Message
✓	12 14:34:48	INSERT INTO Country (Id, Country_name, Population, Area) VALUES (11, 'UAE', 3...	2 row(s) affected Records: 2 Duplicates: 0 Warnings: 0
✓	13 14:35:15	INSERT INTO Persons (Id, Fname, Lname, Population, Rating, Country_Id, Country...	2 row(s) affected Records: 2 Duplicates: 0 Warnings: 0
✓	14 14:35:36	SELECT count(Lname) FROM Persons WHERE Lname IS NOT NULL LIMIT 0, 1000	1 row(s) returned
✓	15 14:36:09	SELECT COUNT(*) AS Rowcount FROM Persons LIMIT 0, 1000	1 row(s) returned
✓	16 14:36:39	SELECT Population FROM Country LIMIT 3	3 row(s) returned
✓	17 14:37:53	SELECT * FROM Country ORDER BY rand() LIMIT 3	3 row(s) returned

SQLAdditions

Automatic disabled. Use manually get current caret position toggle automatic

Navigator: Filter objects

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 - Tables
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- Administration
 - Schemas

No object selected

Query 1: SORTING AND GROUPING DA

Limit to 1000 rows

```

93
94 # 10. List all persons ordered by their rating in descending order.
95
96 • SELECT Fname, Lname, Rating FROM Persons
97 ORDER BY Rating DESC ;

```

Result Grid

	Fname	Lname	Rating
▶	Linda	Anderson	4.9
	Richie	Moore	4.9
	Jane	Smith	4.8
	Anna	Moore	4.6
	Janice	Moore	4.6
	John	Doe	4.5

Persons 12 x

Output: Action Output

#	Time	Action	Message	Duration
✓	13 14:35:15	INSERT INTO Persons (Id, Fname, Lname, Population, Rating, Country_Id, Country...	2 row(s) affected Records: 2 Duplicates: 0 Warnings: 0	0.000
✓	14 14:35:36	SELECT count(Lname) FROM Persons WHERE Lname IS NOT NULL LIMIT 0, 1000	1 row(s) returned	0.000
✓	15 14:36:09	SELECT COUNT(*) AS Rowcount FROM Persons LIMIT 0, 1000	1 row(s) returned	0.000
✓	16 14:36:39	SELECT Population FROM Country LIMIT 3	3 row(s) returned	0.000
✓	17 14:37:53	SELECT * FROM Country ORDER BY rand() LIMIT 3	3 row(s) returned	0.015
✓	18 14:38:33	SELECT Fname, Lname, Rating FROM Persons ORDER BY Rating DESC LIMIT 0...	12 row(s) returned	0.000

SQLAdditions

Automatic context disabled. Use the toggle manually get current caret position toggle automatic

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SCHMAS

Filter objects

▼ entri_dsm1_d36

- Tables
 - country
 - persons
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▼ sales

- Tables
- Views
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- Functions

▼ school

- Tables
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Administration Schemas

Information

No object selected

Query 1 SORTING AND GROUPING DA

Limit to 1000 rows

98

99 # 11. Find the total population for each country in the Persons table.

100

101 • SELECT Country_name, sum(Population) AS Total_Population FROM Persons

102 GROUP BY Country_name;

Result Grid

Country_name	Total_Population
USA	1000000
India	2000000
Canada	1500000
Australia	2500000
UK	1800000
Germany	1300000

Result 13

Output

Action Output

#	Time	Action	Message	Duration / Fetch
14	14:35:36	SELECT count(Lname) FROM Persons WHERE Lname IS NOT NULL LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
15	14:36:09	SELECT COUNT(*) AS Rowcount FROM Persons LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
16	14:36:39	SELECT Population FROM Country LIMIT 3	3 row(s) returned	0.000 sec / 0.000 sec
17	14:37:53	SELECT * FROM Country ORDER BY rand() LIMIT 3	3 row(s) returned	0.015 sec / 0.000 sec
18	14:38:33	SELECT Fname, Lname, Rating FROM Persons ORDER BY Rating DESC LIMIT 0...	12 row(s) returned	0.000 sec / 0.000 sec
19	14:39:10	SELECT Country_name, sum(Population) AS Total_Population FROM Persons GR...	12 row(s) returned	0.015 sec / 0.000 sec

Object Info Session

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

HEMAS

Filter objects

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- Functions

▼ school

- Tables
- Views
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- Functions

Administration Schemas

formation

No object selected

102 GROUP BY Country_name;

103

104 # 12. Find countries in the Persons table with a total population greater than 50,000

105

106 • SELECT Country_Id, Country_name, Population FROM Persons WHERE Population > 50000;

Result Grid

Country_Id	Country_name	Population
1	USA	1000000
2	India	2000000
3	Canada	1500000
4	Australia	2500000
5	UK	1800000
6	Germany	1300000

Persons 14

Output

Action Output

#	Time	Action	Message	Duration /
15	14:36:09	SELECT COUNT(*) AS Rowcount FROM Persons LIMIT 0, 1000	1 row(s) returned	0.000 sec
16	14:36:39	SELECT Population FROM Country LIMIT 3	3 row(s) returned	0.000 sec
17	14:37:53	SELECT * FROM Country ORDER BY rand() LIMIT 3	3 row(s) returned	0.015 sec
18	14:38:33	SELECT Fname, Lname, Rating FROM Persons ORDER BY Rating DESC LIMIT 0...	12 row(s) returned	0.000 sec
19	14:39:10	SELECT Country_name, sum(Population) AS Total_Population FROM Persons GR...	12 row(s) returned	0.015 sec
20	14:40:19	SELECT Country_Id, Country_name, Population FROM Persons WHERE Populatio...	12 row(s) returned	0.015 sec

Object Info Session

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Navigation icons

Query 1 SORTING AND GROUPING DA

SQLAdditions

Filter objects

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sales

- Tables
- Views
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- Functions

school

Administration Schemas

Information

110

111 • SELECT Country_Id, COUNT(*) AS PersonCount, avg(Rating) AS AvgRating FROM Persons

112 GROUP BY Country_Id

113 HAVING COUNT(*) >2

114 ORDER BY avg(Rating) ASC ;

Result Grid

- Country_Id
- PersonCount
- AvgRating

Filter Rows: Export: Wrap Cell Contents

Result GridForm Editor

Automatic con disabled. Use t manually get l current caret p toggle autom

Result 15 x Read Only Context Help Snippets

Output

Action Output

- # Time Action Message
- ✓ 16 14:36:39 SELECT Population FROM Country LIMIT 3 3 row(s) returned
- ✓ 17 14:37:53 SELECT * FROM Country ORDER BY rand() LIMIT 3 3 row(s) returned
- ✓ 18 14:38:33 SELECT Fname, Lname, Rating FROM Persons ORDER BY Rating DESC LIMIT 0... 12 row(s) returned
- ✓ 19 14:39:10 SELECT Country_name, sum(Population) AS Total_Population FROM Persons GR... 12 row(s) returned
- ✓ 20 14:40:19 SELECT Country_Id, Country_name, Population FROM Persons WHERE Populatio... 12 row(s) returned
- ✓ 21 14:40:50 SELECT Country_Id, COUNT(*) AS PersonCount, avg(Rating) AS AvgRating FRO... 0 row(s) returned

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