

STEPS

The screenshot shows the SQL Developer interface. The 'Navigator' pane on the left displays the 'entri_dsml_d36' schema with tables 'country' and 'persons'. The 'Query Editor' shows a query with two lines: `1 SELECT * FROM Country;` and `2 SELECT * FROM Persons;`. The 'Result Grid' displays the data for the first query, showing columns: Id, Country_name, Population, Area. The 'Output' pane shows the execution of the first query, returning 12 rows.

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

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

The screenshot shows the SQL Developer interface. The 'Query Editor' shows a query with two lines: `1 SELECT * FROM Country;` and `2 SELECT * FROM Persons;`. The 'Result Grid' displays the data for the second query, showing columns: Id, Fname, Lname, Population, Rating, Country_Id, Country_name. The 'Output' pane shows the execution of the second query, returning 12 rows.

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

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

The screenshot shows the SQL Developer interface. The 'Query Editor' shows a query with three lines: `5 # INNER JOIN`, `8 SELECT Country.Id, Persons.Fname, Persons.Lname, Persons.Rating, Country.Country_name`, and `9 FROM Country INNER JOIN Persons ON Country.Id = Persons.Country_Id;`. The 'Result Grid' displays the data for the third query, showing columns: Id, Fname, Lname, Rating, Country_name. The 'Output' pane shows the execution of the third query, returning 12 rows.

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

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

Query 1 SORTING AND GROUPING DA... JOINS AND UNION

```

10
11 # LEFT JOIN
12
13 • SELECT Country.Id, Persons.Fname, Persons.Lname, Persons.Rating, Country.Country_name
14 FROM Country LEFT JOIN Persons ON Country.Id = Persons.Country_Id;

```

Result Grid

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

Output

#	Time	Action	Message	Duration / F
1	19:11:42	SELECT * FROM Country LIMIT 0, 1000	12 row(s) returned	0.000 sec /
2	19:12:27	SELECT * FROM Persons LIMIT 0, 1000	12 row(s) returned	0.000 sec /
3	19:13:00	SELECT Country.Id, Persons.Fname, Persons.Lname, Persons.Rating, Country.Coun...	12 row(s) returned	0.000 sec /
4	19:13:54	SELECT Country.Id, Persons.Fname, Persons.Lname, Persons.Rating, Country.Coun...	12 row(s) returned	0.000 sec /

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

Query 1 SORTING AND GROUPING DA... JOINS AND UNION

```

15
16 # RIGHT JOIN
17
18 • SELECT Country.Id, Persons.Fname, Persons.Lname, Persons.Rating, Country.Country_name
19 FROM Country RIGHT JOIN Persons ON Country.Id = Persons.Country_Id;

```

Result Grid

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

Output

#	Time	Action	Message	Duration
1	19:11:42	SELECT * FROM Country LIMIT 0, 1000	12 row(s) returned	0.000 sec
2	19:12:27	SELECT * FROM Persons LIMIT 0, 1000	12 row(s) returned	0.000 sec
3	19:13:00	SELECT Country.Id, Persons.Fname, Persons.Lname, Persons.Rating, Country.Coun...	12 row(s) returned	0.000 sec
4	19:13:54	SELECT Country.Id, Persons.Fname, Persons.Lname, Persons.Rating, Country.Coun...	12 row(s) returned	0.000 sec
5	19:14:24	SELECT Country.Id, Persons.Fname, Persons.Lname, Persons.Rating, Country.Coun...	12 row(s) returned	0.000 sec

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

Query 1 SORTING AND GROUPING DA... JOINS AND UNION

```

21 # 2) List all distinct country names from both the Country and Persons tables
22
23 • SELECT DISTINCT Country_name FROM Country
24 UNION
25 SELECT DISTINCT Country_name FROM Persons;

```

Result Grid

	Country_name
1	USA
2	India
3	Canada
4	Australia
5	UK
6	Germany

Output

#	Time	Action	Message	Duration /
1	19:11:42	SELECT * FROM Country LIMIT 0, 1000	12 row(s) returned	0.000 sec
2	19:12:27	SELECT * FROM Persons LIMIT 0, 1000	12 row(s) returned	0.000 sec
3	19:13:00	SELECT Country.Id, Persons.Fname, Persons.Lname, Persons.Rating, Country.Coun...	12 row(s) returned	0.000 sec
4	19:13:54	SELECT Country.Id, Persons.Fname, Persons.Lname, Persons.Rating, Country.Coun...	12 row(s) returned	0.000 sec
5	19:14:24	SELECT Country.Id, Persons.Fname, Persons.Lname, Persons.Rating, Country.Coun...	12 row(s) returned	0.000 sec
6	19:15:19	SELECT DISTINCT Country_name FROM Country UNION SELECT DISTINCT Cou...	12 row(s) returned	0.000 sec

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

Query 1 SORTING AND GROUPING DA... JOINS AND UNION

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

```

27 # 3)List all country names from both the Country and Persons tables, including duplicates
28
29 SELECT DISTINCT Country_name FROM Country
30 UNION ALL
31 SELECT DISTINCT Country_name FROM Persons;

```

Result Grid

Country_name
USA
India
Canada
Australia
UK
Germany

Result 7 x Read Only Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration /
2	19:12:27	SELECT * FROM Persons LIMIT 0, 1000	12 row(s) returned	0.000 sec.
3	19:13:00	SELECT Country.Id, Persons.Fname, Persons.Lname, Persons.Rating, Country.Cou...	12 row(s) returned	0.000 sec.
4	19:13:54	SELECT Country.Id, Persons.Fname, Persons.Lname, Persons.Rating, Country.Cou...	12 row(s) returned	0.000 sec.
5	19:14:24	SELECT Country.Id, Persons.Fname, Persons.Lname, Persons.Rating, Country.Cou...	12 row(s) returned	0.000 sec.
6	19:15:19	SELECT DISTINCT Country_name FROM Country UNION SELECT DISTINCT Co...	12 row(s) returned	0.000 sec.
7	19:15:45	SELECT DISTINCT Country_name FROM Country UNION ALL SELECT DISTINC...	24 row(s) returned	0.000 sec.

ject Info Session

Query 1 SORTING AND GROUPING DA... JOINS AND UNION

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

```

31 SELECT DISTINCT Country_name FROM Persons;
32
33 # 4)Round the ratings of all persons to the nearest integer in the Persons table.
34
35 SELECT Id, Fname, Lname, round(Rating,0) AS Rounded_Rating FROM Persons;

```

Result Grid

Id	Fname	Lname	Rounded_Rating
1	John	Doe	4
2	Jane	Smith	5
3	Michael	Brown	4
4	Emily	Davis	4
5	James	Wilson	4
6	Anna	Moore	5

Result 8 x Read Only Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fe
3	19:13:00	SELECT Country.Id, Persons.Fname, Persons.Lname, Persons.Rating, Country.Cou...	12 row(s) returned	0.000 sec / 1
4	19:13:54	SELECT Country.Id, Persons.Fname, Persons.Lname, Persons.Rating, Country.Cou...	12 row(s) returned	0.000 sec / 1
5	19:14:24	SELECT Country.Id, Persons.Fname, Persons.Lname, Persons.Rating, Country.Cou...	12 row(s) returned	0.000 sec / 1
6	19:15:19	SELECT DISTINCT Country_name FROM Country UNION SELECT DISTINCT Co...	12 row(s) returned	0.000 sec / 1
7	19:15:45	SELECT DISTINCT Country_name FROM Country UNION ALL SELECT DISTINC...	24 row(s) returned	0.000 sec / 1
8	19:16:11	SELECT Id, Fname, Lname, round(Rating,0) AS Rounded_Rating FROM Persons L...	12 row(s) returned	0.000 sec / 1

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