





Joins and Union

Querying Data assignment.sql* SQL File 8* SQL File 9 Sorting and Grouping data.sql a... SQL File 6* x

 Limit to 1000 rows

```
1
2 • SELECT *
3 FROM Persons AS p
4 INNER JOIN Country AS c ON p.Country_Id = c.Id;
```

Result Grid  Filter Rows: Exports:  Wrap Cell Content: 

	Id	Fname	Lname	Population	Rating	Country_Id	Country_name	Id	Country_name	Population	Area
▶	1	John	Doe	100000	4.50	1	USA	1	USA	331002651	9833517
	2	Jane	Smith	50000	3.80	2	India	2	India	1380004385	3287263
	3	Mike	Johnson	20000	4.00	3	China	3	China	1439323776	9596961
	4	Emily	Davis	15000	4.70	1	USA	1	USA	331002651	9833517
	5	Chris	Brown	30000	4.20	2	India	2	India	1380004385	3287263
	6	Pat	NULL	25000	3.50	3	China	3	China	1439323776	9596961
	7	Alex	Taylor	70000	4.10	4	Brazil	4	Brazil	212559417	8515767
	8	Jordan	NULL	12000	2.90	5	Nigeria	5	Nigeria	206139589	923768
	9	Taylor	Wilson	80000	4.80	1	USA	1	USA	331002651	9833517
	10	Sam	Anderson	55000	3.90	6	Russia	6	Russia	145912025	17098242

Result 1 x

Output

Action Output

#	Time	Action	Message
✓ 14	22:59:27	SELECT * FROM Country ORDER BY RAND() LIMIT 3	3 row(s) returned
✓ 15	23:01:44	SELECT * FROM Persons ORDER BY Rating DESC LIMIT 0, 1000	10 row(s) returned
✓ 16	23:04:26	SELECT Country_name, SUM(Population) AS TotalPopulation FROM Persons GROUP BY Country_name LIMIT...	6 row(s) returned
✓ 17	23:05:21	SELECT Country_name, SUM(Population) AS TotalPopulation FROM Persons GROUP BY Country_name HA...	4 row(s) returned
✓ 18	23:07:07	SELECT Country_name, COUNT(*) AS TotalPersons, AVG(Rating) AS AverageRating FROM Persons GROUP ...	1 row(s) returned
✓ 19	23:28:06	SELECT * FROM Persons AS p INNER JOIN Country AS c ON p.Country_Id = c.Id LIMIT 0, 1000	10 row(s) returned

Querying Data assignment sql* SQL File 8* SQL File 9 Sorting and Grouping data sql a... SQL File 6* x

3 FROM Persons AS p
 4 INNER JOIN Country AS c ON p.Country_Id = c.Id;
 5
 6 ##LEFT JOIN
 7 • SELECT *
 8 FROM Persons AS p
 9 LEFT JOIN Country AS c ON p.Country_Id = c.Id;

Result Grid Filter Rows: Export: Wrap Cell Content:

	Id	Fname	Lname	Population	Rating	Country_Id	Country_name	Id	Country_name	Population	Area
▶	1	John	Doe	100000	4.50	1	USA	1	USA	331002651	9833517
	2	Jane	Smith	50000	3.80	2	India	2	India	1380004385	3287263
	3	Mike	Johnson	20000	4.00	3	China	3	China	1439323776	9596961
	4	Emily	Davis	15000	4.70	1	USA	1	USA	331002651	9833517
	5	Chris	Brown	30000	4.20	2	India	2	India	1380004385	3287263
	6	Pat	NULL	25000	3.50	3	China	3	China	1439323776	9596961
	7	Alex	Taylor	70000	4.10	4	Brazil	4	Brazil	212559417	8515767
	8	Jordan	NULL	12000	2.90	5	Nigeria	5	Nigeria	206139589	923768
	9	Taylor	Wilson	80000	4.80	1	USA	1	USA	331002651	9833517
	10	Sam	Anderson	55000	3.90	6	Russia	6	Russia	145912025	17098242

Result 2 x

Output

Action Output

#	Time	Action	Message
✓ 15	23:01:44	SELECT * FROM Persons ORDER BY Rating DESC LIMIT 0, 1000	10 row(s) returned
✓ 16	23:04:26	SELECT Country_name, SUM(Population) AS TotalPopulation FROM Persons GROUP BY Country_name LIM...	6 row(s) returned
✓ 17	23:05:21	SELECT Country_name, SUM(Population) AS TotalPopulation FROM Persons GROUP BY Country_name HA...	4 row(s) returned
✓ 18	23:07:07	SELECT Country_name, COUNT(*) AS TotalPersons, AVG(Rating) AS AverageRating FROM Persons GROUP ...	1 row(s) returned
✓ 19	23:28:06	SELECT * FROM Persons AS p INNER JOIN Country AS c ON p.Country_Id = c.Id LIMIT 0, 1000	10 row(s) returned
✓ 20	23:29:31	SELECT * FROM Persons AS p LEFT JOIN Country AS c ON p.Country_Id = c.Id	10 row(s) returned

Querying Data assignment sql*
 SQL File 8*
 SQL File 9
 Sorting and Grouping data sql a...
 SQL File 6*

Don't Limit

```

8      FROM Persons AS p
9      LEFT JOIN Country AS c ON p.Country_Id = c.Id;
10
11     ## RIGHT JOIN
12     • SELECT *
13     FROM Persons AS p
14     RIGHT JOIN Country AS c ON p.Country_Id = c.Id;
    
```

Result Grid
 Filter Rows:
 Export:
 Wrap Cell Content:

	Id	Fname	Lname	Population	Rating	Country_Id	Country_name	Id	Country_name	Population	Area
▶	1	John	Doe	100000	4.50	1	USA	1	USA	331002651	9833517
	4	Emily	Davis	15000	4.70	1	USA	1	USA	331002651	9833517
	9	Taylor	Wilson	80000	4.80	1	USA	1	USA	331002651	9833517
	2	Jane	Smith	50000	3.80	2	India	2	India	1380004385	3287263
	5	Chris	Brown	30000	4.20	2	India	2	India	1380004385	3287263
	3	Mike	Johnson	20000	4.00	3	China	3	China	1439323776	9596961
	6	Pat	NULL	25000	3.50	3	China	3	China	1439323776	9596961
	7	Alex	Taylor	70000	4.10	4	Brazil	4	Brazil	212559417	8515767
	8	Jordan	NULL	12000	2.90	5	Nigeria	5	Nigeria	206139589	923768
	10	Sam	Anderson	55000	3.90	6	Russia	6	Russia	145912025	17098242
	NULL	NULL	NULL	NULL	NULL	NULL	NULL	7	Mexico	128932753	1964375
	NULL	NULL	NULL	NULL	NULL	NULL	NULL	8	Japan	126476461	377975

Result 3 x
 Output
 Action Output

#	Time	Action	Message
✓ 16	23:04:26	SELECT Country_name, SUM(Population) AS TotalPopulation FROM Persons GROUP BY Country_name LIMIT 0, 1000	6 row(s) returned
✓ 17	23:05:21	SELECT Country_name, SUM(Population) AS TotalPopulation FROM Persons GROUP BY Country_name HAVING SUM(Population) > 100000	4 row(s) returned
✓ 18	23:07:07	SELECT Country_name, COUNT(*) AS TotalPersons, AVG(Rating) AS AverageRating FROM Persons GROUP BY Country_name	1 row(s) returned
✓ 19	23:28:06	SELECT * FROM Persons AS p INNER JOIN Country AS c ON p.Country_Id = c.Id LIMIT 0, 1000	10 row(s) returned
✓ 20	23:29:31	SELECT * FROM Persons AS p LEFT JOIN Country AS c ON p.Country_Id = c.Id	10 row(s) returned
✓ 21	23:30:09	SELECT * FROM Persons AS p RIGHT JOIN Country AS c ON p.Country_Id = c.Id	14 row(s) returned

Don't Limit

```

13 FROM Persons AS p
14 RIGHT JOIN Country AS c ON p.Country_Id = c.Id;
15
16 ##To get distinct country names from both tables, you can use a UNION:
17 • SELECT DISTINCT Country_name FROM Country
18 UNION
19 SELECT DISTINCT Country_name FROM Persons;

```

Result Grid
Filter Rows:

Export:
Wrap Cell Content:

	Country_name
▶	USA
	India
	China
	Brazil
	Nigeria
	Russia
	Mexico
	Japan
	Germany
	UK

Result 4
×

Output

Action Output

#	Time	Action	Message
✓ 17	23:05:21	SELECT Country_name, SUM(Population) AS TotalPopulation FROM Persons GROUP BY Country_name HA...	4 row(s) returned
✓ 18	23:07:07	SELECT Country_name, COUNT(*) AS TotalPersons, AVG(Rating) AS AverageRating FROM Persons GROUP ...	1 row(s) returned
✓ 19	23:28:06	SELECT * FROM Persons AS p INNER JOIN Country AS c ON p.Country_Id = c.Id LIMIT 0, 1000	10 row(s) returned
✓ 20	23:29:31	SELECT * FROM Persons AS p LEFT JOIN Country AS c ON p.Country_Id = c.Id	10 row(s) returned
✓ 21	23:30:09	SELECT * FROM Persons AS p RIGHT JOIN Country AS c ON p.Country_Id = c.Id	14 row(s) returned
✓ 22	23:30:55	SELECT DISTINCT Country_name FROM Country UNION SELECT DISTINCT Country_name FROM Persons	10 row(s) returned



```
22 • SELECT Country_name FROM Country
23 UNION ALL
24 SELECT Country_name FROM Persons;
25
26 ##To round the ratings of all persons in the Persons table:
27 • SELECT Id, Fname, Lname, Population, ROUND(Rating) AS Rounded_Rating, Country_Id, Country_name
28 FROM Persons;
```

Result Grid Filter Rows: Export: Wrap Cell Content:

Id	Fname	Lname	Population	Rounded_Rating	Country_Id	Country_name
1	John	Doe	100000	5	1	USA
2	Jane	Smith	50000	4	2	India
3	Mike	Johnson	20000	4	3	China
4	Emily	Davis	15000	5	1	USA
5	Chris	Brown	30000	4	2	India
6	Pat	NULL	25000	4	3	China
7	Alex	Taylor	70000	4	4	Brazil
8	Jordan	NULL	12000	3	5	Nigeria
9	Taylor	Wilson	80000	5	1	USA
10	Sam	Anderson	55000	4	6	Russia

Result 6 x

Input

Action Output

#	Time	Action	Message
19	23:28:06	SELECT * FROM Persons AS p INNER JOIN Country AS c ON p.Country_Id = c.Id LIMIT 0, 1000	10 row(s) returned
20	23:29:31	SELECT * FROM Persons AS p LEFT JOIN Country AS c ON p.Country_Id = c.Id	10 row(s) returned
21	23:30:09	SELECT * FROM Persons AS p RIGHT JOIN Country AS c ON p.Country_Id = c.Id	14 row(s) returned
22	23:30:55	SELECT DISTINCT Country_name FROM Country UNION SELECT DISTINCT Country_name FROM Persons	10 row(s) returned
23	23:33:00	SELECT Country_name FROM Country UNION ALL SELECT Country_name FROM Persons	20 row(s) returned
24	23:33:51	SELECT Id, Fname, Lname, Population, ROUND(Rating) AS Rounded_Rating, Country_Id, Country_name FRO...	10 row(s) returned