

# PostgreSQL Self-Join

Query Editor Query History Explain Messages

```
1 --The following query uses the self-join to find who reports to whom:
2 SELECT
3     e.first_name || ' ' || e.last_name employee,
4     m.first_name || ' ' || m.last_name manager
5 FROM
6     employee e
7 INNER JOIN employee m ON m.employee_id = e.manager_id
8 ORDER BY manager;
```

Data Output

	employee text	manager text
1	Sau Norman	Ava Christensen
2	Anna Reeves	Ava Christensen
3	Salley Lester	Hassan Conner
4	Kelsie Hays	Hassan Conner
5	Tory Goff	Hassan Conner
6	Ava Christensen	Windy Hays
7	Hassan Conner	Windy Hays

Query Editor Query History Explain Messages

```
1 --To include the top manager in the result set, you use
2 --the LEFT JOIN instead of INNER JOIN clause as shown in the following query:
3 SELECT
4     e.first_name || ' ' || e.last_name employee,
5     m.first_name || ' ' || m.last_name manager
6 FROM
7     employee e
8 LEFT JOIN employee m ON m.employee_id = e.manager_id
9 ORDER BY manager;
```

Data Output

	employee text	manager text
1	Anna Reeves	Ava Christensen
2	Sau Norman	Ava Christensen
3	Salley Lester	Hassan Conner
4	Kelsie Hays	Hassan Conner
5	Tory Goff	Hassan Conner
6	Hassan Conner	Windy Hays
7	Ava Christensen	Windy Hays
8	Windy Hays	[null]

Query Editor Query History Explain Messages

```
1 --The following query finds all pair of films that have the same length,
2 SELECT
3     f1.title,
4     f2.title,
5     f1.length
6 FROM
7     film f1
8 INNER JOIN film f2
9     ON f1.film_id <> f2.film_id AND
10    f1.length = f2.length;
```

Data Output

	title character varying (255)	title character varying (255)	length smallint
1	Chamber Italian	Resurrection Silverado	117
2	Chamber Italian	Magic Mallrats	117
3	Chamber Italian	Graffiti Love	117
4	Chamber Italian	Affair Prejudice	117
5	Grosse Wonderful	Hurricane Affair	49
6	Grosse Wonderful	Hook Chariots	49
7	Grosse Wonderful	Heavenly Gun	49
8	Grosse Wonderful	Doors President	49
9	Airport Pollock	Sense Greek	54
10	Airport Pollock	October Submarine	54
11	Airport Pollock	Kill Brotherhood	54

