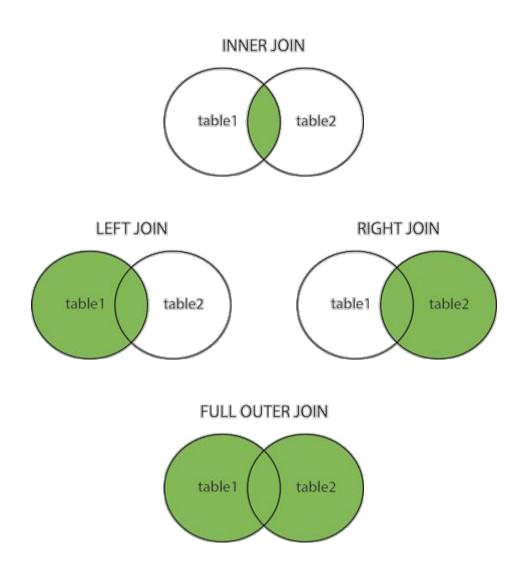
SQL Joins



Inner join (the default join)

SELECT user.name, task.title

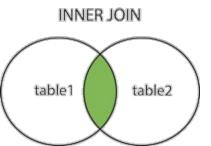
FROM (user INNER JOIN task

ON user.id = task.user_id);

Aarika Ellingworth Wash clothes Aarika Ellingworth Order groceries online Aarika Ellingworth Water the potted plants Pren Goldsworthy Walk the dog Pren Goldsworthy Sign up for linkedin Pren Goldsworthy Backup databases to external disk Pablo Kisbee Do HackYourFuture homework Pablo Kisbee Buy gift for Paul Pablo Kisbee Buy new dining room table and chairs Pablo Kisbee Put up the new lamp in the hallway Rodie Duncan Make the databases perform better Buy beer for the company party Rodie Duncan Rodie Duncan Remove facebook from phone Rodie Duncan Hang up paintings in living room Aubry Polak Buy wine for the birthday party Aubry Polak Learn how databases work Maryrose Meadows Become a billionaire Maryrose Meadows Fix the flat tire on the bike Maryrose Meadows Write a book Maryrose Meadows Look at apartments in Ørestad Maryrose Meadows Renew buscard Pavel Brushneen Charge electric bicycle Pavel Brushneen Ride bike aroud Sjælland Hedy Gerault Plan meeting with London office Hedy Gerault Wash windows Hedy Gerault Empty Mr Fluffy's litterbox Empty the mailbox Iron shirts Setup salary databases for accounting Knit sweater Buy plane ticket to Auckland Wash the car سایل Change lightbulb in hallway rows in set (0.00 sec)

title

name



Inner join (the default join)

SELECT user.name, task.title

FROM (user INNER JOIN task ON user.id = task.user_id)

WHERE user.name = "Pablo Kisbee";

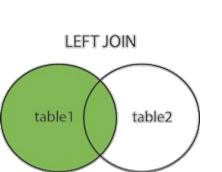
table1 table2

Left join

SELECT user.name, task.title

FROM (user LEFT JOIN task

ON user.id = task.user_id);



name title Aarika Ellingworth Wash clothes Aarika Ellingworth Order groceries online Aarika Ellingworth | Water the potted plants Pren Goldsworthy Walk the dog Pren Goldsworthy Sign up for linkedin Pren Goldsworthy Backup databases to external disk Pablo Kisbee Do HackYourFuture homework Buy gift for Paul Pablo Kisbee Buy new dining room table and chairs Pablo Kisbee Put up the new lamp in the hallway Pablo Kisbee Make the databases perform better Rodie Duncan Buy beer for the company party Rodie Duncan Remove facebook from phone Rodie Duncan Hang up paintings in living room Rodie Duncan Aubry Polak Buy wine for the birthday party Aubry Polak Learn how databases work Become a billionaire Maryrose Meadows Maryrose Meadows Fix the flat tire on the bike Maryrose Meadows Write a book Maryrose Meadows Look at apartments in Ørestad Maryrose Meadows Renew buscard Charge electric bicycle Pavel Brushneen Ride bike aroud Sjælland Pavel Brushneen Plan meeting with London office Hedy Gerault Hedy Gerault Wash windows Hedy Gerault Empty Mr Fluffy's litterbox 王秀英 Empty the mailbox Iron shirts Setup salary databases for accounting 王秀英 Knit sweater Buy plane ticket to Auckland 王秀英 س ای ل Wash the car Change lightbulb in hallway س ای ل Donald Duck NULL Adam Smith NULL

35 rows in set (0.00 sec)

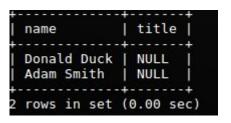
Left join

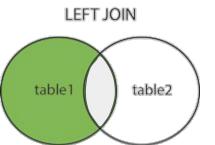
SELECT user.name, task.title

FROM (user LEFT JOIN task

ON user.id = task.user_id)

WHERE task.user_id IS NULL;





Right join

SELECT user.name, task.title

FROM (user RIGHT JOIN task

ON user.id = task.user_id);

RIGHT JOIN table2

title name Wash clothes Aarika Ellingworth Become a billionaire Maryrose Meadows Hedy Gerault Plan meeting with London office Aarika Ellingworth Order groceries online Empty the mailbox Maryrose Meadows Fix the flat tire on the bike سایل Wash the car Pren Goldsworthy Walk the dog Maryrose Meadows Write a book Do HackYourFuture homework Pablo Kisbee 王秀英 Iron shirts Aarika Ellingworth Water the potted plants Aubry Polak Buy wine for the birthday party Pablo Kisbee Buy gift for Paul سايل إ Change lightbulb in hallway Hedy Gerault Wash windows 王秀英 Setup salary databases for accounting Aubry Polak Learn how databases work Rodie Duncan Make the databases perform better Buy beer for the company party Rodie Duncan 王秀英 Knit sweater Charge electric bicycle Pavel Brushneen Buy new phone Ride bike aroud Sjælland Pavel Brushneen Maryrose Meadows Look at apartments in Ørestad Hedy Gerault Empty Mr Fluffy's litterbox Pablo Kisbee Buy new dining room table and chairs Maryrose Meadows Renew buscard Sign up for linkedin Pren Goldsworthy Rodie Duncan Remove facebook from phone Pren Goldsworthy Backup databases to external disk Pablo Kisbee Put up the new lamp in the hallway Hang up paintings in living room Rodie Duncan Buy plane ticket to Auckland 王秀英 Learn about NoSOL databases

35 rows in set (0.00 sec)

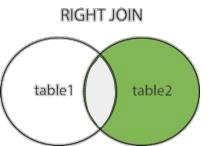
Right join

SELECT user.name, task.title

FROM (user RIGHT JOIN task

ON user.id = task.user_id)

WHERE user.id IS NULL;



Full outer join

MySQL doesn't support FULL OUTER JOIN directly, instead we need to use:

SELECT user.name, task.title

FROM (user LEFT JOIN task

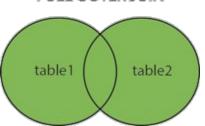
ON user.id=task.user_id)

UNION

SELECT user.name, task.title

FROM (user RIGHT JOIN task

ON user.id=task.user_id); FULL OUTER JOIN



37 rows in set (0.01 sec)

Full outer join

SELECT user.name, task.title

FROM (user LEFT JOIN task

ON user.id=task.user_id)

WHERE task.user_id is NULL

UNION

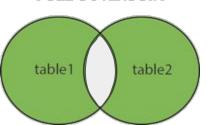
SELECT user.name, task.title

FROM (user RIGHT JOIN task

ON user.id=task.user_id)

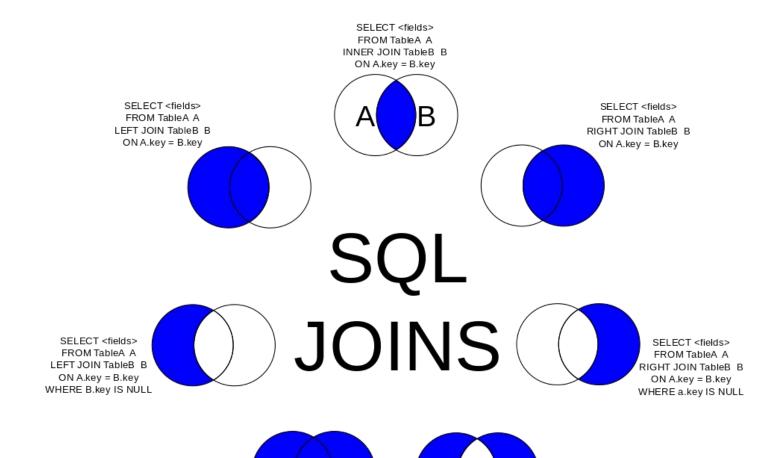
where user.id is NULL;

FULL OUTER JOIN



```
| TowsLineset (0.00 sec) | Title | Tit
```

SQL joins - sum up with syntax





SELECT <fields>
FROM TableA A
FULL OUTER JOIN TableB B
ON A.key = B.key
WHERE A.key IS NULL
OR B.kev IIS NULL