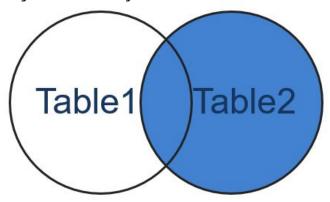
Right Join

- A RIGHT JOIN returns all matching rows from the second table, even if there are no matching rows in the first table
 - NULL values will be displayed for the *first* table if there is no match



Right Join

- Syntax: SELECT t1.columns, t2.columns FROM table1 t1 RIGHT JOIN table2 t2 ON t1.column = t2.column;
- List *all* doctors, along with any appointments SELECT a.a_date, d.d_lastname FROM Appointment a RIGHT JOIN Doctor d ON a.d id = d.d id ORDER BY d.d_lastname; #All doctors are listed, regardless of existing appointments
- List *all* patients, along with any appointments SELECT a.a date, p.p lastname FROM Appointment a RIGHT JOIN Patient p ON a.p_id = p.p_id ORDER BY p.p_lastname; #All patients are listed, regardless of existing appointments

Right Join

 List the patients who have an appointment at 11am or who do not have an appointment at all

```
SELECT p.*, a.* FROM Appointment a
RIGHT JOIN Patient p ON a.p_id = p.p_id
WHERE a.a date = '2016-02-15 11:00:00'
OR a.a_id IS NULL; #a id will be NULL in first table in RIGHT JOIN
```

 Do this another way using 2 subqueries SELECT p.* FROM Patient p WHERE p.p_id IN (SELECT a.p_id FROM Appointment a WHERE a.a_date = '2016-02-15 11:00:00') OR p.p id NOT IN (SELECT a.p_id FROM Appointment a);

Joining Data From Multiple Tables Summary

Command Desc.	Basic Syntax Structure	Example
INNER JOIN Returns all rows from both tables where there is a match	SELECT t1.columns, t2.columns FROM table1 t1 [INNER] JOIN table2 t2 ON t1.column = t2.column;	SELECT d.d_firstname, d.d_lastname, a.a_date FROM Doctor d JOIN Appointment a ON d.d_id = a.a_id ORDER BY d.d_lastname, d.d_firstname;
LEFT JOIN Returns all matching rows from the first table	SELECT t1.columns, t2.columns FROM table1 t1 LEFT JOIN table2 t2 ON t1.column = t2.column;	SELECT d.*, a.* FROM Doctor d LEFT JOIN Appointment a ON d.d_id = a.d_id ORDER BY d.d_lastname;
RIGHT JOIN Returns all matching rows from the second table	SELECT t1.columns, t2.columns FROM table1 t1 RIGHT JOIN table2 t2 ON t1.column = t2.column;	SELECT p.p_lastname AS 'Patient Last Name', a.a_date AS 'Appointment Date' FROM Appointment a RIGHT JOIN Patient p ON a.p_id = p.p_id ORDER BY p.p_lastname;