

Week 4: Inner Joins and Outer Joins

Inner join in sql

Used while comparing two columns in a table every value should be same in both data columns

```
SELECT first_name, last_name, job_title, job.job_id "Job Table", employee.job_id "Employee Table"
FROM employee INNER JOIN job
ON employee.job_id = job.job_id
ORDER BY job.job_id ASC;
```

Outer join in sql

Right outer join

```
SELECT *
FROM employee RIGHT OUTER JOIN job
ON employee.job_id = job.job_id
ORDER BY job.job_id ASC
WHERE employee.job_id IS NULL;
```

Prefer to use left outer join

Left outer join

```
SELECT first_name, last_name, job_title, job.job_id "Job Table", employee.job_id "Employee Table"
FROM job LEFT OUTER JOIN employee
ON employee.job_id = job.job_id
ORDER BY job.job_id ASC
WHERE employee.job_id IS NULL;
```

Using inner join with three tables

```
SELECT first_name, last_name, job_title, job.job_id "Job Table", employee.job_id "Employee Table", department_name
FROM job INNER JOIN employee
ON employee.job_id = job.job_id
INNER JOIN department
ON department.department_id = employee.department_id
ORDER BY job.job_id ASC;
```

Using table alias

```
SELECT first_name, last_name, job_title, job.job_id "Job Table", employee.job_id "Employee Table", department_name  
FROM job t1 INNER JOIN employee t2  
ON employee.job_id = job.job_id  
INNER JOIN department t3  
ON t3.department_id = t2.department_id  
ORDER BY t1.job_id ASC;
```