# Lab 5 – Joining Tables

Create a new query file for QAStore and save as **05JoiningTables.sql**

## Exercise 5.1 – INNER JOINS

**Exercise 5.1.1 – JOIN of Company with Contact**

Use an INNER JOIN to display the specified **company** and related **contact** details:

1. **company\_name** and   
   **company\_no** As 'Company Company No'

**company\_no** As 'Contact Company No',

**FROM** **company**  
**contact\_code** and   
**contact\_name** **FROM** **contact**

sorted by **company\_name** in alphabetic order

**Exercise 5.1.2 – JOIN of Contact with Company**

Use an INNER JOIN to display the specified **contact** and related **company** details:

1. **contact\_name,**   
   **contact\_code** and   
   **contact\_no** as ‘Contact Company No’   
   **FROM contact**

**company\_no** as ‘Company Company No’ and   
**company\_name**   
**FROM company**

sorted by **contact\_name** in alphabetic order

**Exercise 5.1.3 – JOIN of more than two Tables**

Use an INNER JOIN to display the specified **sale** and related **salesperson** and **dept** details:

1. **order\_no** and **emp\_no** as '*S Emp No*'   
   **FROM** **sale**

**emp\_no** as ‘SP Emp No’, **first\_name**, **last\_name** and   
**dept\_no** as ‘SP Dept No’ from **salesperson**

**dept\_no** as ‘D Dept No’ and **dept\_name**   
**FROM** **dept**

sorted by **order\_no** in ascending order

**Exercise 5.1.4 – Composite JOIN**

Use an INNER JOIN to display the specified **contact** and related **sale** details:

1. **company\_no, contact\_code** and **contact\_name**   
   **FROM contact**

**order\_no, order\_value** and **order\_date**   
**FROM sale**

sorted by **company\_no** and **contact\_code** in ascending order

## Exercise 5.2 – OUTER JOINS

**Exercise 5.2.1 – OUTER JOIN of all Salespersons**

Use an OUTER JOIN to display the specified **salesperson** and related **sale** details if they exist or NULL values if the **salesperson** has not made any **sales**:

1. **emp\_no, first\_name** and **last\_name   
   FROM salesperson**

**order\_no, company\_no, contact\_code** and **order\_value   
FROM sale**

sorted by **emp\_no** and then **order\_no** in ascending order

**Exercise 5.2.2 – OUTER JOIN of Salespersons with no Sales**

Modify 5.2.1 a) to just display the specified **salesperson** details for those that have not made any **sales**:

1. **emp\_no, first\_name** and **last\_name** from **salesperson**

sorted by **emp\_no** in ascending order