Practice Interview Questions

SQL

- What are the benefits of performing in-database analytics?
  - Check out our [Introduction to SQL and Databases article](#) to help you with this.
- Under what conditions would a window function be useful when doing data science with SQL?
  - Check out [the Intermediate SQL DataCamp course](#), particularly **chapter 4**, if you struggle with this.
- Explain the difference between databases, database management systems, and querying languages.
  - Check out our [Introduction to SQL and Databases article](#) to help you with this.
- Describe a situation where left join, but not a right join, is appropriate.
  - Think of [this map](#) of the set theory underpinning join operations to help you.
- What are the main benefits of using a relational database over a large excel spreadsheet?
  - If you're not quite clear on this, have a look at [this article](#).
- Can you explain the difference between the WHERE and HAVING filters? Can you exemplify a situation where just one, but not the other, of these filters is appropriate?
  - Think about the difference between filtering on *results*, and filtering on *groups*.

- What does the LIMIT command do?

- How can you use the BETWEEN to select from a range of values? Can you provide an example and recode the same example using an AND statement?
- How would you find records where the first name of an employee started with the letter P?
- What are the wild card operators?
- How would you select values NOT IN a query result given a where statement?
- How could you find the number of unique neighborhoods that customers come from?
- How would you concatenate two columns together to make a new column?