Practice Interview Questions

SQL

- What are the benefits of performing in-database analytics?
 - Check out our <u>Introduction to SQL and Databases article</u> to help you with this.
- Under what conditions would a window function be useful when doing data science with SQL?
 - Check out <u>the Intermediate SQL DataCamp course</u>, particularly *chapter 4*, if you struggle with this.
- Explain the difference between databases, database management systems, and querying languages.
 - Check out our <u>Introduction to SQL and Databases article</u> to help you with this.
- Describe a situation where left join, but not a right join, is appropriate.
 - Think of <u>this map</u> 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?
 - o 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?