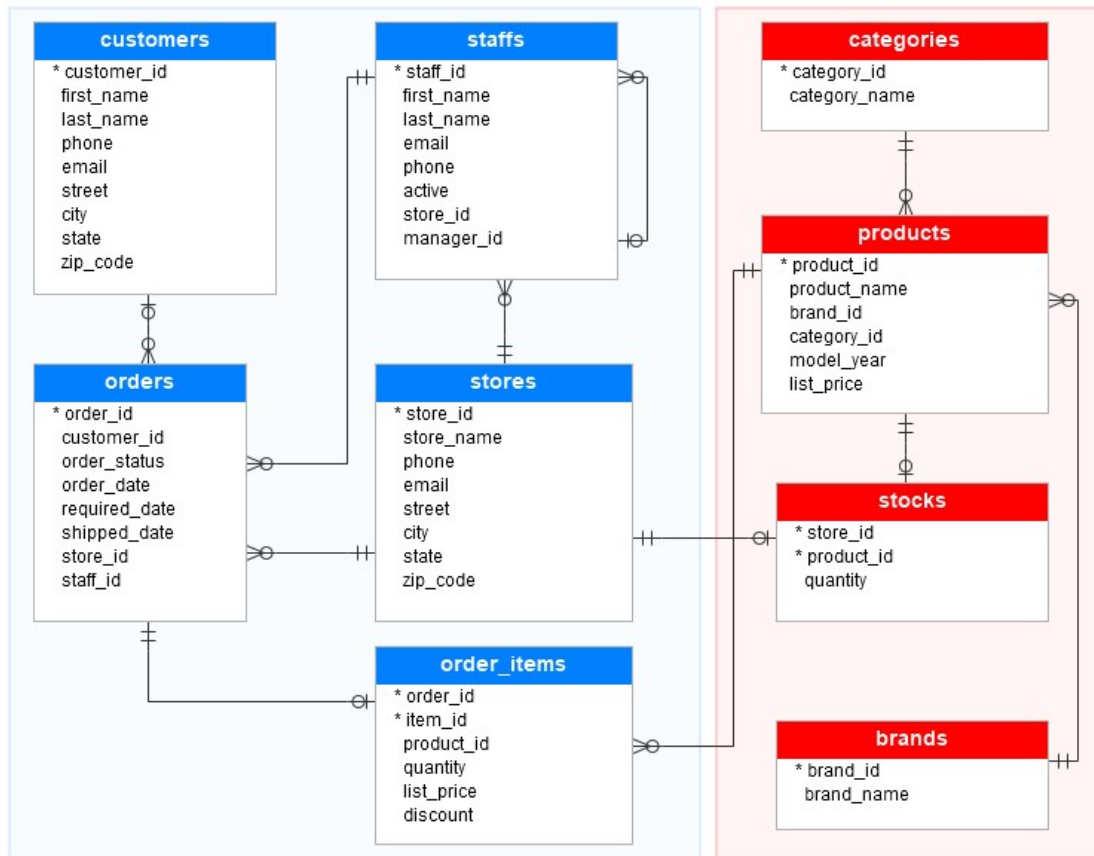


## 2\_SQL Practicing\_BikeStores\_Pivot

Sales

Production



1. List product information including the following fields: **product\_id**, **product\_name**, **brand\_name**, **category\_name**, **model\_year**, and **list\_price**.

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2. Calculate the number of products in each category (in row format) using aggregate functions.

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3. Calculate the number of products in each category displayed as columns (using pivot).

If PIVOT is not allowed (assuming SQL Server is not used), how would you write this query alternatively?

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4. Calculate the number of products by **model\_year** within each category using a two-dimensional pivot table.

If the company adds new product categories, how can the pivot query automatically adapt without manually updating category codes?

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5. Based on the database and available data, what insights or information do you think can be extracted?