

## Chapter 9

# How to design a database

## Exercises

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In these exercises, you'll use a FREE online diagram service <https://www.draw.io/> or Microsoft Visio (\$\$\$\$) to create Entity Relation Diagrams. Your submission to your instructor should be a WORD or PDF document that provides images of the relationships described in the questions below as they relate to the databases referred to in the questions.

1. Draw a database diagram for the script file named `create_mgs_tables.sql` that's in the `mgs_ex_starts` folder.

2. Draw a database diagram for a database that stores information about the downloads that users make.

Each user must have an email address, first name, and last name.

Each user can have one or more downloads.

Each download must have a filename and download date/time.

Each product can be related to one or more downloads.

Each product must have a name.