Problem: The Wholesale Database introduced in Project 1 is a simplified version of a
database that serves to keep track of the products manufactured by different brands
and the selling price comparison between each product supplied by different vendors.

Consider the following set of requirements along with the tables provided in Project 1
(a) Each vendor is described by the ID, name, category, address, email, and phone
   number.
(b) Each brand is described by the ID, name, license, contact_phone, contact_email,
   and contract_year.
(c) Each product is described by the ID, name, category, and production_cost.
(d) One product must belong to one brand. One brand may or may not provide more
    than one product.
(e) Each vendor may supply zero or multiple product(s). A product may be supplied
    by zero or multiple vendor(s).

Design an ER schema for this application, and draw an ER diagram for that schema.
Specify key attributes of each entity type and structural constraints on each relationship
type using \((\text{min}, \text{max})\) notation. Note any unspecified requirements, and make
appropriate assumptions to make the specification complete. **You only need to draw
an ER diagram to show your design.**