The ER diagram shows the main entities and relationships, but some of the real-world rules behind the system can't be expressed in ER notation. For example, compound ingredients can only list direct materials and can't nest beyond one level or create cycles. Lot numbers for both ingredients and products follow strict formats (e.g., <ingredientId>-<supplierId>-<babelia-compliants (e.g., <ingredientId>-<supplierId>-<babelia-compliants (e.g., <ingredientId>-<supplierId>-<babelia-compliants (e.g., <ingredientId>-<supplierId>-<babelia-compliants (e.g., <ingredientId>-<supplierId>-<babelia-compliants (e.g., <ingredientId>-<supplierId>-<supplierId>-
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