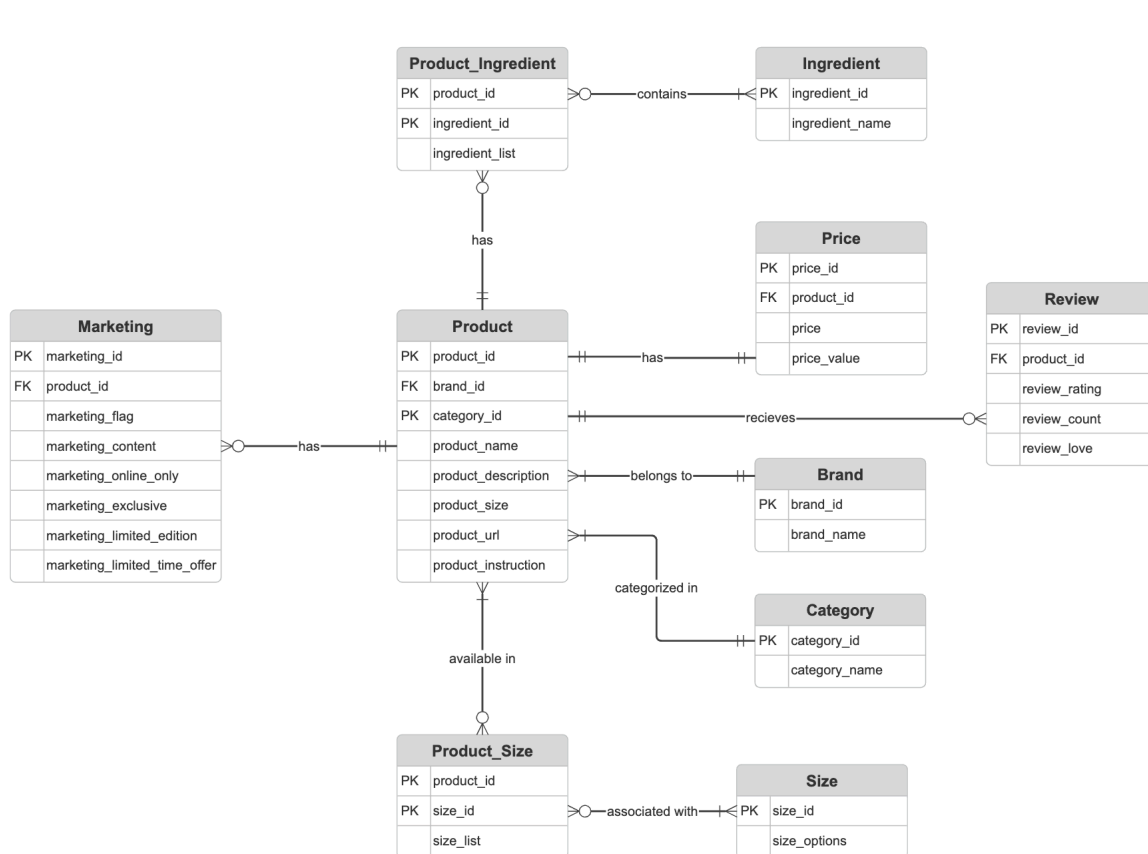# Entity Relationship Diagram (ERD)

Business Rules

PRODUCT - PRICE:
- Each product has one and only one price
- Each price may be associated with one or many products.

PRODUCT - REVIEW:
- Each product can receive zero or many reviews from customers.
- Each review is associated with only one specific product.

PRODUCT - BRAND:
- Each product belongs to exactly one brand.
- Each brand can have at least one or many products under it.

PRODUCT - CATEGORY:
- Each product is assigned to exactly one category.
- Each category can contain one or many products.

PRODUCT - PRODUCT_INGREDIENT:
- Each product may contain at least one or many ingredients through a list of product-ingredient associations.
- Each product-ingredient association links one product to one specific ingredient.

PRODUCT - MARKETING_DETAIL:
- Each product may have zero or many marketing details, which provide promotional or marketing information.
- Each marketing detail entry is associated with exactly one specific product.

PRODUCT - PRODUCT_SIZE:
- Each product may be available in one or many sizes.
- Each product-size entry links one product to one specific size.

INGREDIENT - PRODUCT_INGREDIENT:
- Each ingredient can be used in one or many products through the product-ingredient association.
- Each product-ingredient association links one ingredient to one specific product.

SIZE - PRODUCT_SIZE:
- Each size can be associated with one or many products through the product-size association.
- Each product-size association links one size to one specific product.