

E-commerce Profitability Inventory Optimization

Milestone: Project proposal

Group 23

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Percentage of Effort Contributed by Student1: 50%

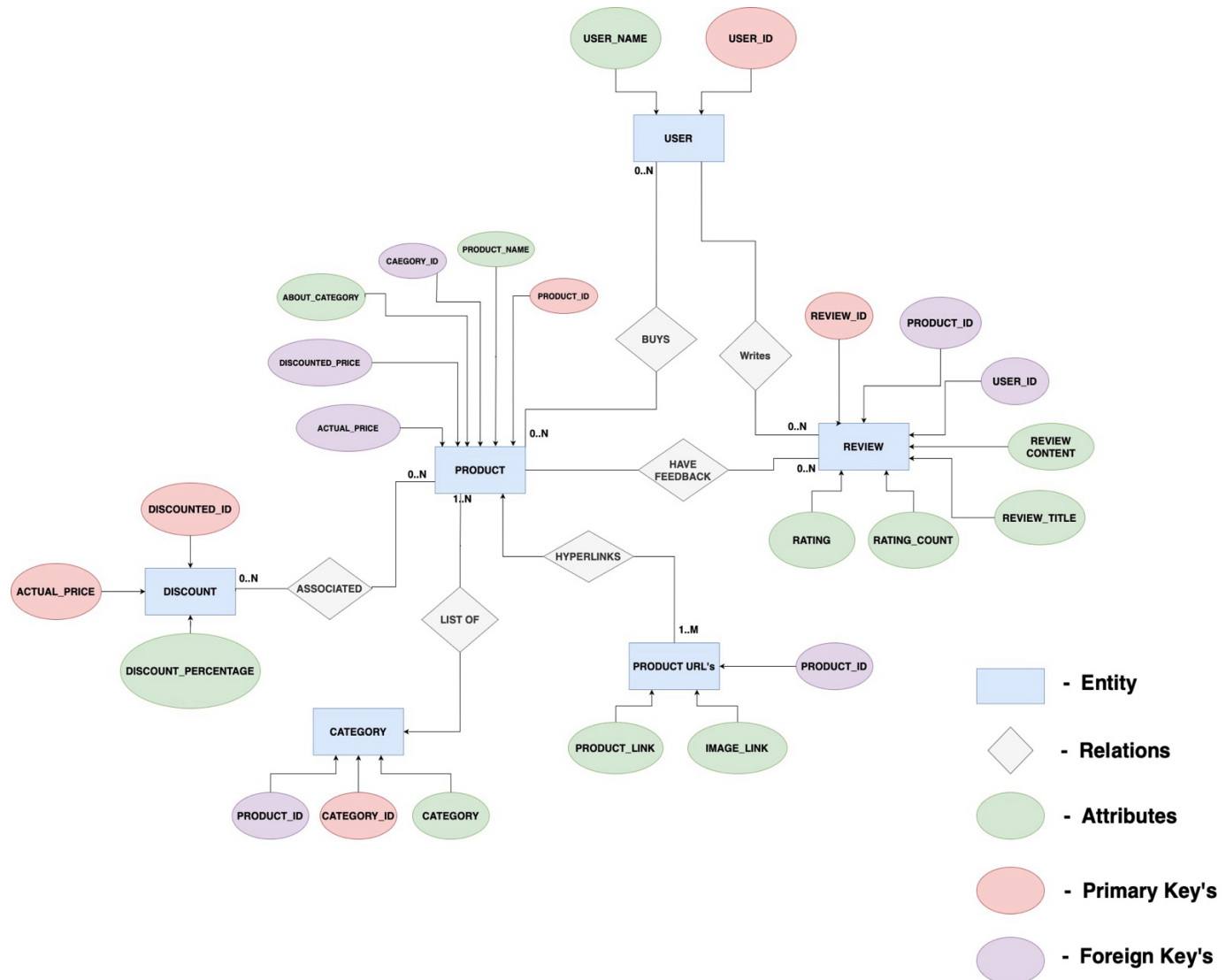
Percentage of Effort Contributed by Student2: 50%

Signature of Student 1: Rishwanth Reddy

Signature of Student 2: Manoghn

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ER DIAGRAM:



Entities and Attributes:

Product (Entity)

- product_id (Primary Key)
- product_name
- category_id (Foreign Key, references Category)
- about_product
- discounted_price (Foreign Key, references Discount)
- actual_price (Foreign Key, references Discount)

Discount (Entity)

- discount (Primary Key)
- discounted_price.
- actual_price
- discount_percentage

Category (Entity)

- category_id (Primary Key)
- category

User (Entity)

- user_id (Primary Key)
- user_name

Review (Entity)

- review (Primary Key)
- rating
- rating_count
- review_title
- review_content
- product_id (Foreign Key, references Product)
- user_id (Foreign Key, references User)

ProductLink (Entity)

- product_link_id (Primary Key)
- img_link
- product_id (Foreign Key, references Product)

Relations:

- 1) PRODUCT to DISCOUNT: one product can have multiple discounts and a single discount will be applicable to multiple products so it (MANY to MANY)
- 2) PRODUCT to CATEGORY: one product can have one category, but one category can have multiple products. So, its (Many to many)
- 3) PRODUCT to Product URLs: A product can have Multiple Links, but a link refers to only one product so it's (one too Many)
- 4) PRODUCT to USER: The user can buy multiple products and multiple users can purchase a product. So, its (Many to many)
- 5) USER to Review: one user can give multiple reviews. And one review can be given by multiple users So it's (Many to many)
- 6) PRODUCT to REVIEW: A product will have many reviews, but a review is associated with only one product. So, it's (MANY to MANY)

UML DIAGRAM

