Dylan Phoutthavong

February 20th, 2024

CSCI 3287

Practical Assignment 01

A table with numbers and numbers

AI-generated content may be incorrect.

**A diagram of a product

AI-generated content may be incorrect.**

**B. Identify the integrity constraints:  (1) Key constraints, (2) Entity integrity, (3) Referential integrity or (4) no constraint violation. Discuss all integrity constraints violated by each operation.**

a. Insert <1005, 30, 2> into ITEM relation.

* Violations: Foreign Key Constraint
  + Invoice\_number 1005 does not exist in INVOICE

b. Insert <60, 'Appliance', 6, 100> into PRODUCT relation.

* Violations: Foreign Key Constraint
  + Category 6 does not exist as a category\_id in CATEGORY

c. Update the Product\_id attribute of the PRODUCT tuple with Product\_id = 50 to 60.

* Violations: NONE

d. Update the Product\_id attribute of the ITEM tuple with Product\_id = 40 to 60.

* Violations: Foreign Key Constraint
  + Product\_id 60 does not exist as a Product\_id in PRODUCT

e. Delete the INVOICE tuples with Payment = 0.

* Violations: NONE

**2. Create an EER Diagram for a parking garage database.**

A diagram of a company

AI-generated content may be incorrect.