Project 3

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1 Relational Schema

- **Store**(<u>s_id</u>, s_address, phone_number, manager_id UNIQUE NOT NULL)
  FOREIGN KEY(manager_id) REFERENCES Employee(employee_id)

- **Employee**(<u>e_id</u>, e_name, s_id)
  FOREIGN KEY(s_id) REFERENCES Store(s_id)

- **Manufacturer**(<u>m_id</u>, m_name)

- **Product**(<u>p_id</u>, p_name NOT NULL, unit_price NOT NULL, description, discount_percentage, m_id NOT NULL)
  FOREIGN KEY(m_id) REFERENCES Manufacturer(m_id)

- **Paint**(<u>p_id</u>, base, color)
  FOREIGN KEY(p_id) REFERENCES Product(p_id)

- **Tool**(<u>p_id</u>, type)

- **Has_in_stock**(<u>p_id</u>, <u>s_id</u>, quantity NOT NULL)
  FOREIGN KEY(p_id) REFERENCES Product(p_id)
  FOREIGN KEY(s_id) REFERENCES Store(s_id)

- **Customer**(<u>email</u>, c_name, c_address NOT NULL)
  PRIMARY KEY(email)

- **Purchase**(<u>p_id</u>, amount NOT NULL, p_date NOT NULL, p_time NOT NULL)

- **Contains_purchase**(<u>p_id</u>, <u>product_id</u>, quantity NOT NULL)
  FOREIGN KEY(p_id) REFERENCES Purchase(p_id)
  FOREIGN KEY(product_id) REFERENCES Product(p_id)

- **Instore**(<u>p_id</u>, <u>e_id</u>)
  FOREIGN KEY(p_id) REFERENCES Purchase(p_id)
  FOREIGN KEY(e_id) REFERENCES Employee(e_id)

- **Online**(<u>p_id</u>, rating, delivery_fee NOT NULL, email NOT NULL)
  FOREIGN KEY(p_id) REFERENCES Purchase(p_id)
  FOREIGN KEY(email) REFERENCES Customer(email)

2 Introduction

This is an example LaTeX template.