

# Project 3

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## 1 Relational Schema

- **Store**(s\_id, s\_address, phone\_number, manager\_id UNIQUE NOT NULL)  
FOREIGN KEY(manager\_id) REFERENCES Employee(employee\_id)
- **Employee**(e\_id, e\_name, s\_id)  
FOREIGN KEY(s\_id) REFERENCES Store(s\_id)
- **Manufacturer**(m\_id, m\_name)
- **Product**(p\_id, p\_name NOT NULL, unit\_price NOT NULL, description, discount\_percentage, m\_id NOT NULL)  
FOREIGN KEY(m\_id) REFERENCES Manufacturer(m\_id)
- **Paint**(p\_id, base, color)  
FOREIGN KEY(p\_id) REFERENCES Product(p\_id)
- **Tool**(p\_id, type)
- **Has\_in\_stock**(p\_id, s\_id, quantity NOT NULL )  
FOREIGN KEY(p\_id) REFERENCES Product(p\_id)  
FOREIGN KEY(s\_id) REFERENCES Store(s\_id)
- **Customer**(email, c\_name, c\_address NOT NULL)  
PRIMARY KEY(email)
- **Purchase**(p\_id, amount NOT NULL, p\_date NOT NULL, p\_time NOT NULL)
- **Contains\_purchase**(p\_id, product\_id, quantity NOT NULL)  
FOREIGN KEY(p\_id) REFERENCES Purchase(p\_id)  
FOREIGN KEY(product\_id) REFERENCES Product(p\_id)
- **Instore**(p\_id, e\_id)  
FOREIGN KEY(p\_id) REFERENCES Purchase(p\_id)  
FOREIGN KEY(e\_id) REFERENCES Employee(e\_id)
- **Online**(p\_id, rating, delivery\_fee NOT NULL, email NOT NULL)  
FOREIGN KEY(p\_id) REFERENCES Purchase(p\_id)  
FOREIGN KEY(email) REFERENCES Customer(email)

## 2 Stored Procedure