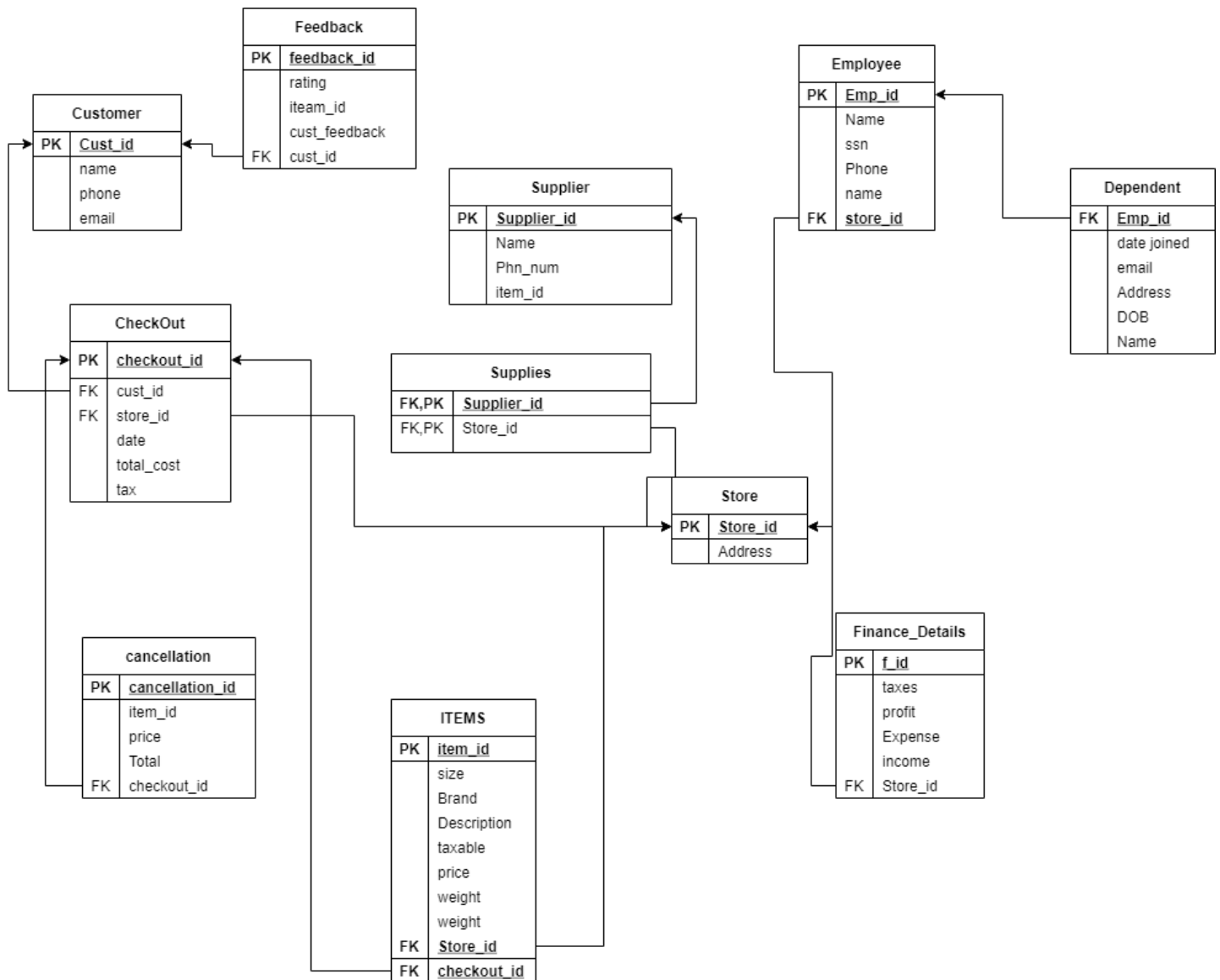


GROCERY MANAGEMENT SYSTEM

Task 1

Mapping conceptual model to Relational/ NoSQL data model.



Relational Data Model

This project is based on the Relational Data model because of the relationship between the various Entities and Fields. This Model reduces the redundancy and Data access for our project becomes simple and efficient.

RDBMS:

Implementation chosen:

PostgreSQL: PostgreSQL is an advanced, enterprise-class, and open-source relational database system. This project uses PostgreSQL as the primary database.

Task 2

Implementation of the database and populating the database with suitable values.

The tables required for the Grocery Management project are created by table.sql file and for the testing purpose values are added by sql commands which are in insert.sql file.

```
CREATE TABLE CUSTOMER(cust_id INTEGER NOT NULL,  
name TEXT NOT NULL,  
phone BIGINT,  
email text,  
CONSTRAINT P1 PRIMARY KEY(cust_id)  
);  
  
CREATE TABLE STORE(store_id INTEGER NOT NULL,  
address TEXT,  
CONSTRAINT P4 PRIMARY KEY(store_id)  
);  
  
CREATE TABLE CHECKOUT(checkout_id INTEGER NOT NULL,  
cust_id INTEGER,  
date DATE,  
total_cost INTEGER NOT NULL,  
tax REAL,  
store_id INTEGER,  
CONSTRAINT F2 FOREIGN KEY(cust_id) REFERENCES CUSTOMER(cust_id),  
CONSTRAINT P3 PRIMARY KEY(checkout_id),  
CONSTRAINT FK2 FOREIGN KEY(store_id) REFERENCES STORE(store_id)  
);
```

Creating tables

```

insert into CUSTOMER (cust_id, name, phone, email) values (1, 'Tove', 7666154196, 'tbacup0@imdb.com');
insert into CUSTOMER (cust_id, name, phone, email) values (2, 'Nari', 1780195225, 'nstpaul1@goodreads.com');
insert into CUSTOMER (cust_id, name, phone, email) values (3, 'Gilligan', 8864067619, 'gvaz2@skype.com');
insert into CUSTOMER (cust_id, name, phone, email) values (4, 'Anatola', 1600783466, 'aagutter3@etsy.com');
insert into CUSTOMER (cust_id, name, phone, email) values (5, 'Philis', 5573609280, 'pfranzetti4@blog.com');
insert into CUSTOMER (cust_id, name, phone, email) values (6, 'Gabriel', 6577832517, 'gradbourn5@addthis.com');
insert into CUSTOMER (cust_id, name, phone, email) values (7, 'Madelle', 4982854791, 'mdeppe6@parallels.com');
insert into CUSTOMER (cust_id, name, phone, email) values (8, 'Barbi', 4603941230, 'btoffolo7@yellowbook.com');
insert into CUSTOMER (cust_id, name, phone, email) values (9, 'Kaylil', 2714878583, 'kritmeyer8@tumblr.com');
insert into CUSTOMER (cust_id, name, phone, email) values (10, 'Camila', 1926052010, 'cfilinkov9@issuu.com');
insert into CUSTOMER (cust_id, name, phone, email) values (11, 'Reeva', 7864244765, 'randreuzzia@example.com');
insert into CUSTOMER (cust_id, name, phone, email) values (12, 'Elianore', 7027514437, 'eadingtonb@mail.ru');
insert into CUSTOMER (cust_id, name, phone, email) values (13, 'Dorelia', 8404001565, 'divakinc@dmaz.org');
insert into CUSTOMER (cust_id, name, phone, email) values (14, 'Teresa', 4332019299, 'tblankettd@bing.com');
insert into CUSTOMER (cust_id, name, phone, email) values (15, 'Devi', 7005377433, 'dferencee@artisteer.com');
insert into CUSTOMER (cust_id, name, phone, email) values (16, 'Neala', 6165597939, 'ncaldeyrouxf@xrea.com');
insert into CUSTOMER (cust_id, name, phone, email) values (17, 'Janetta', 3019924302, 'jmalletrattg@java.com');
insert into CUSTOMER (cust_id, name, phone, email) values (18, 'Mariquilla', 8946695917, 'mdysharth@yellowpages.com');
insert into CUSTOMER (cust_id, name, phone, email) values (19, 'Lucinda', 4922910124, 'lkermitti@quantcast.com');
insert into CUSTOMER (cust_id, name, phone, email) values (20, 'Gnni', 1683727909, 'grabbagej@dion.ne.jp');
insert into CUSTOMER (cust_id, name, phone, email) values (21, 'Anallese', 2624163958, 'agirogettik@mayoclinic.com');
insert into CUSTOMER (cust_id, name, phone, email) values (22, 'Claudie', 9416461756, 'cboichl@newsvine.com');
insert into CUSTOMER (cust_id, name, phone, email) values (23, 'Caprice', 7038479115, 'ccurtissm@bloomberg.com');
insert into CUSTOMER (cust_id, name, phone, email) values (24, 'Jodee', 3917601628, 'jivanyushkinn@imdb.com');
insert into CUSTOMER (cust_id, name, phone, email) values (25, 'Stephannie', 7684694134, 'saujeano@is.gd');
insert into CUSTOMER (cust_id, name, phone, email) values (26, 'Minetta', 6793289941, 'mcossonsp@w3.org');

```

Inserting Values

Contribution

PES1UG19CS174	Guruprasad B N	Converted ER to Relational Schema
PES1UG19CS176	H V Shashikant Reddy	Mapped all Constraints and helped in Sql files
PES1UG19CS191	Ishwar Sitarama Joshi	Created SQL query files for table creation and Inserting Test data

