Database Design and Implementation

Database design and implementation for a fictional Coffee company

The Cafe — A San Francisco Bay Area Premium Coffee Store Chain

Started in 1993 with a mission of revolutionizing how the average person drinks coffee, *The Café*, a coffee shop chain based in the San Francisco Bay Area, owns three locations in San Francisco and two, respectively, in San Mateo and San Jose. Whilst many coffee shops already exist in the SF Bay Area, *The Café* differentiates itself by specializing in serving coffee brewed from only the highest quality and finest of coffee beans. This local coffee shop chain produces coffee with beans imported from all over the world that guarantee an unforgettable taste whilst ensuring balance in the notes of the drinks that ultimately end up in the customer's mouth.

Throughout the years, *The Café* worked on creating a reputation for itself as being a leader in the coffee brewing business. Despite witnessing much success, the coffee shop chain currently deals with a myriad of problems pertaining to its current data management model, with the biggest issues being the effectiveness of its current database design and the efficiency of data storage and retrieval. With this major problem acknowledged, the company decided that it wants to optimize its current practices pertaining to the handling of its data. To achieve the desired end of a more efficient data management environment, we designed database infrastructure centralized on a few major components critical to the day-to-day business operations of *The Café*. Because the coffee shop chain receives a lot of orders, both in-person and over the phone, daily, we decided that it must be able to monitor customer data pertaining to business operations to streamline its business processes, from the beginning of the ordering process to when the customer receives their coffee.

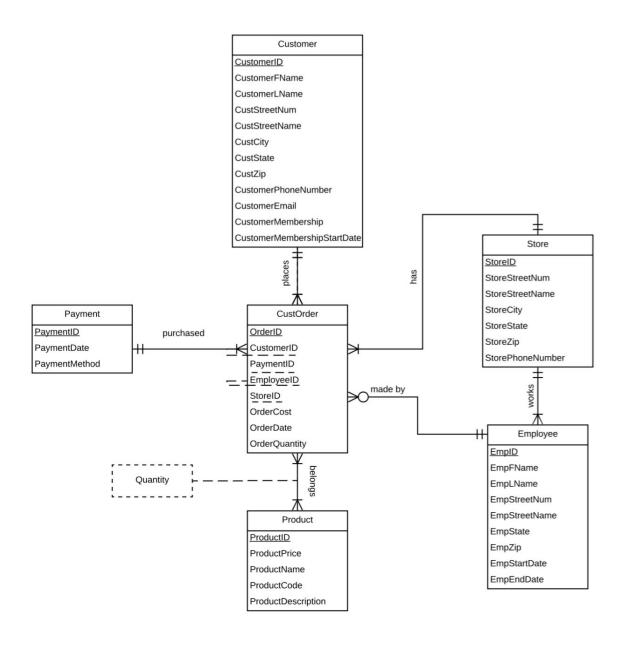
In the database infrastructure designed for *The Café*, we focus on customer, order, product, employee and store data. The database structure of the coffee shop chain starts with Customer data. In the database, we created a table called Customer that holds information pertaining to the customer, such as their name, address, email, phone number. In addition to the general information about a customer that we receive on a per order basis, each customer database entry receives a unique ID that behaves as the primary key of the table. As a customer places an order, their order gets assigned a unique identifier named OrderID that identifies the order in the Order table in the database, which holds The Café's unique order data from each of its locations. After an order has been assigned a unique identifier key, it then gets linked to the customer that placed the order via a foreign key in the Order table named CustID. Upon placement of an order, the Order table references the Product table that holds all of the data pertaining to the coffee shop's menu to see what the customer ordered. Aside from the unique order and customer identifiers, this table also holds an order's cost, date, quantity, how it was paid for, the store the order was placed at, the ID of the employee that fulfilled the order and the ID of the customer that a specific order belongs to. After an order has been placed and the relation between said order and customer has been made via the unique identifier keys, the system then identifies the store that the order was placed at and assigns a StoreID to the order from the *Store* table.

Upon receipt of order, the system then assigns the order to an employee, respective of the location at which the order was placed. *The Cafe* wants to monitor the output of its employees as this allows the company to monitor variables such as who to credit for an order, quality and speed of work, resource waste and how an employee works. As such, we've created table *Employee* for the sole purpose of allowing the company to monitor the work of its employees. This table consists of a unique identifier key assigned to each employee, a foreign

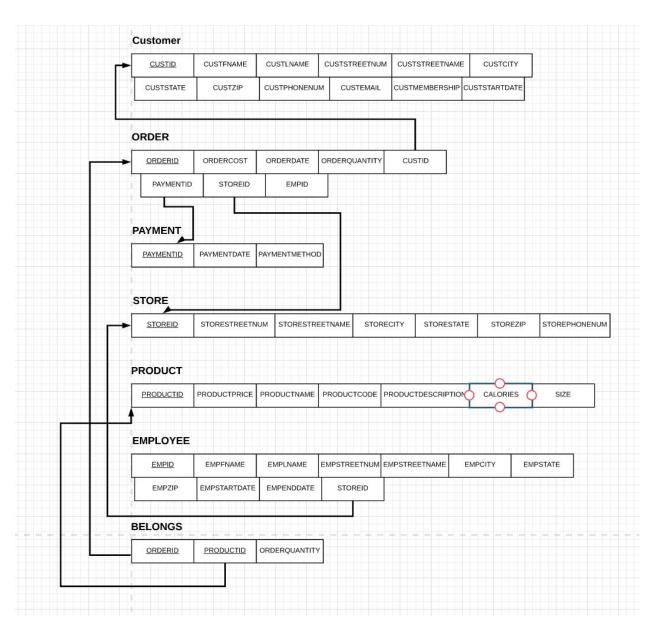
identifier key that draws a relationship between the employee and what store they work at via the *StoreID*, identifier information for employees (name, address, phone number), and their start and end dates. After an employee has fulfilled a customer's order, this entire database process starts over again from the *Customer* table.

With this new and improved relational database created for *The Cafe*, it does not look like the premium coffee shop chain will ever run into data inefficiencies ever again. During the intial design stage, Brian Lei and Cody Berlioz desgined the ER diagriam and corresponding logical schema. We analyzed the structure of the business and based off of its structure, we made decisions on what schemas and relationships within those schemas' columns needed to be made. During the database creation and2load stage, Brian Lei helped shape the design of the database and worked on the *Product*, *Employee* and *Belongs* tables and the data and queries for those respective tables. Lanny Tran made the *Payment*, *Store* and *Order* tables, the data for the *Payment* and *Store* tables, queries for the *Payment* and *Store* tables and helped create the menu for *The Cafe's* menu. Cody Berlioz made the *Customer* and *Order* tables, the data and queries for those tables.

ER Diagram



Logical Schema



Build Commands

```
use TheCafe:
CREATE TABLE CUSTOMER (
CUSTID INTEGER PRIMARY KEY NOT NULL,
CUSTFNAME VARCHAR (25) NOT NULL,
CUSTLNAME VARCHAR (25) NOT NULL,
CUSTSTREETNUMBER INTEGER NOT NULL,
CUSTSTREETNAME VARCHAR (30) NOT NULL,
CUSTCITY VARCHAR (20) NOT NULL,
CUSTSTATE VARCHAR (25) NOT NULL,
CUSTZIP INTEGER NOT NULL,
CUSTPHONENUMBER TEXT NOT NULL,
CUSTEMAIL VARCHAR (40) NOT NULL,
CUSTMEMBERSHIP VARCHAR (3) NOT NULL,
CUSTSTARTDATE TIMESTAMP NOT NULL
);
CREATE TABLE PAYMENT (
PMTID INTEGER PRIMARY KEY NOT NULL,
PMTMETHOD VARCHAR (10) NOT NULL
);
CREATE TABLE STORE (
STOREID INTEGER PRIMARY KEY NOT NULL,
STORESTREETNUM INTEGER NOT NULL,
STORESTREET VARCHAR (30) NOT NULL,
STORECITY VARCHAR (20) NOT NULL,
STORESTATE VARCHAR (2) NOT NULL,
STOREZIP INTEGER NOT NULL,
STOREPHONENUM CHAR (13) NOT NULL
);
CREATE TABLE EMPLOYEE (
```

create database TheCafe;

```
EMPID INTEGER PRIMARY KEY NOT NULL.
     STOREID INTEGER NOT NULL,
     EMPFNAME VARCHAR (25) NOT NULL,
     EMPLNAME VARCHAR (25) NOT NULL,
     EMPSTREETNUM INTEGER NOT NULL,
     EMPSTREETNAME VARCHAR (25) NOT NULL,
     EMPCITY VARCHAR (25) NOT NULL,
     EMPSTATE VARCHAR (2) NOT NULL,
     EMPZIP INTEGER NOT NULL,
     EMPSTARTDATE TIMESTAMP NOT NULL,
     EMPENDDATE TIMESTAMP NOT NULL,
     CONSTRAINT EMPLOYEE FOREIGN KEY (STOREID) REFERENCES STORE
(STOREID)
     );
     CREATE TABLE CUSTORDER (
     ORDERID INTEGER PRIMARY KEY NOT NULL,
     ORDERCOST DECIMAL (15) NOT NULL,
     ORDERDATE DATE NOT NULL,
     ORDERQUANTITY INTEGER NOT NULL,
     CUSTID INTEGER NOT NULL,
     PAYMENTID INTEGER NOT NULL.
     STOREID INTEGER NOT NULL.
     EMPID INTEGER NOT NULL,
     CONSTRAINT CUSTORDER_CUSTOMERID_FK FOREIGN KEY (CUSTID)
REFERENCES CUSTOMER (CUSTID),
     CONSTRAINT CUSTORDER PAYMENTID FK FOREIGN KEY (PAYMENTID)
REFERENCES PAYMENT (PMTID),
     CONSTRAINT CUSTORDER_STOREID_FK FOREIGN KEY (STOREID)
REFERENCES STORE (STOREID),
     CONSTRAINT CUSTORDER EMPLOYEEID FK FOREIGN KEY (EMPID)
REFERENCES EMPLOYEE (EMPID)
     );
     CREATE TABLE PRODUCT (
     PRODUCTID INTEGER PRIMARY KEY NOT NULL,
     PRODUCTPRICE DECIMAL (15,2) NOT NULL,
     PRODUCTNAME TEXT NOT NULL.
     PRODUCTCODE INTEGER NOT NULL,
     PRODUCTDESCRIPTION TEXT NOT NULL.
     PRODUCTCALORIES INTEGER NOT NULL,
     PRODUCTSIZE VARCHAR (10) NOT NULL
     );
```

```
CREATE TABLE BELONGS (
ORDERID INTEGER,
PRODUCTID INTEGER,
ORDERQUANTITY INTEGER,
CONSTRAINT BELONGS_PK PRIMARY KEY(ORDERID, PRODUCTID),
CONSTRAINT BELONGS_ORDERID_FK FOREIGN KEY (ORDERID)
REFERENCES CUSTORDER (ORDERID),
CONSTRAINT BELONGS_PRODUCTID_FK FOREIGN KEY (PRODUCTID)
REFERENCES PRODUCT (PRODUCTID)
);
```

Data Insertion Commands

INSERT INTO CUSTOMER (CUSTID, CUSTFNAME, CUSTLNAME, CUSTSTREETNUMBER, CUSTSTREETNAME, CUSTCITY, CUSTSTATE, CUSTZIP, CUSTPHONENUMBER, CUSTEMAIL, CUSTMEMBERSHIP, CUSTSTARTDATE) values (100, 'Raine', 'Sandever', 23390, 'Lunder', 'Falls Church', 'Virginia', 22047, '571-141-6842', 'rsandever0@si.edu', 'yes', '20011218');

INSERT INTO CUSTOMER (CUSTID, CUSTFNAME, CUSTLNAME, CUSTSTREETNUMBER, CUSTSTREETNAME, CUSTCITY, CUSTSTATE, CUSTZIP, CUSTPHONENUMBER, CUSTEMAIL, CUSTMEMBERSHIP, CUSTSTARTDATE) values (101, 'Sky', 'Caddy', 13689, 'Summer Ridge', 'Knoxville', 'Tennessee', 37914, '865-196-0302', 'scaddy1@umn.edu', 'no', '20020817');

INSERT INTO CUSTOMER (CUSTID, CUSTFNAME, CUSTLNAME, CUSTSTREETNUMBER, CUSTSTREETNAME, CUSTCITY, CUSTSTATE, CUSTZIP, CUSTPHONENUMBER, CUSTEMAIL, CUSTMEMBERSHIP, CUSTSTARTDATE) values (102, 'Seth', 'Williams', 28538, 'Blue Hill Park', 'Fort Worth', 'Texas', 76105, '817-489-3851', 'shincks@indiegogo.com', 'yes', '20171117');

INSERT INTO CUSTOMER (CUSTID, CUSTFNAME, CUSTLNAME, CUSTSTREETNUMBER, CUSTSTREETNAME, CUSTCITY, CUSTSTATE, CUSTZIP, CUSTPHONENUMBER, CUSTEMAIL, CUSTMEMBERSHIP, CUSTSTARTDATE) values (103, 'Marj', 'Jarvis', 10739, 'Delaware', 'Austin', 'Texas', 78744, '361-663-7231', 'mjarvis3@state.gov', 'yes', '20160312');

INSERT INTO CUSTOMER (CUSTID, CUSTFNAME, CUSTLNAME, CUSTSTREETNUMBER, CUSTSTREETNAME, CUSTCITY, CUSTSTATE, CUSTZIP, CUSTPHONENUMBER, CUSTEMAIL, CUSTMEMBERSHIP, CUSTSTARTDATE) values (104, 'Cesar', 'Pinckard',

20796, 'Amoth', 'Harrisburg', 'Pennsylvania', 17110, '717-261-7552', 'cpinckard4@chron.com', 'no', '20170110');

INSERT INTO CUSTOMER (CUSTID, CUSTFNAME, CUSTLNAME, CUSTSTREETNUMBER, CUSTSTREETNAME, CUSTCITY, CUSTSTATE, CUSTZIP, CUSTPHONENUMBER, CUSTEMAIL, CUSTMEMBERSHIP, CUSTSTARTDATE) values (105, 'Elisa', 'Perring', 06924, 'Aberg', 'Annapolis', 'Maryland', 21405, '410-235-4100', 'eperring5@microsoft.com', 'yes', '20120216');

INSERT INTO CUSTOMER (CUSTID, CUSTFNAME, CUSTLNAME, CUSTSTREETNUMBER, CUSTSTREETNAME, CUSTCITY, CUSTSTATE, CUSTZIP, CUSTPHONENUMBER, CUSTEMAIL, CUSTMEMBERSHIP, CUSTSTARTDATE) values (106, 'Kahil', 'Willes', 92736, 'Jenifer', 'Austin', 'Texas', 78703, '512-580-9236', 'kwilles6@cdbaby.com', 'no', '20180512');

INSERT INTO CUSTOMER (CUSTID, CUSTFNAME, CUSTLNAME, CUSTSTREETNUMBER, CUSTSTREETNAME, CUSTCITY, CUSTSTATE, CUSTZIP, CUSTPHONENUMBER, CUSTEMAIL, CUSTMEMBERSHIP, CUSTSTARTDATE) values (107, 'Pascal', 'Garner', 92611, 'Esch', 'Oklahoma City', 'Oklahoma', 73142, '450-474-1717', 'pgarner7@paginegaille.it', 'yes', '20110910');

INSERT INTO CUSTOMER (CUSTID, CUSTFNAME, CUSTLNAME, CUSTSTREETNUMBER, CUSTSTREETNAME, CUSTCITY, CUSTSTATE, CUSTZIP, CUSTPHONENUMBER, CUSTEMAIL, CUSTMEMBERSHIP, CUSTSTARTDATE) values (108, 'Raye', 'Rebichon', 10962, 'Kensington', 'Madison', 'Wisconsin', 53716, '608-257-1121', 'rrebichon8@cmu.edu', 'yes', '20141017');

INSERT INTO CUSTOMER (CUSTID, CUSTFNAME, CUSTLNAME, CUSTSTREETNUMBER, CUSTSTREETNAME, CUSTCITY, CUSTSTATE, CUSTZIP, CUSTPHONENUMBER, CUSTEMAIL, CUSTMEMBERSHIP, CUSTSTARTDATE) values (109, 'Allister', 'Grestye', 20833, 'Lein', 'Zephyrhills', 'Florida', 33543, '813-267-2091', 'agrestyea@marriot.com', 'no', '20181018');

INSERT INTO CUSTOMER (CUSTID, CUSTFNAME, CUSTLNAME, CUSTSTREETNUMBER, CUSTSTREETNAME, CUSTCITY, CUSTSTATE, CUSTZIP, CUSTPHONENUMBER, CUSTEMAIL, CUSTMEMBERSHIP, CUSTSTARTDATE) values (110, 'Kaleena', 'Mcdavid', 29890, 'Valdez', 'Ventura', 'California', 20397, '202-502-3062', 'kmcdavid@com.com', 'no', '20121010');

INSERT INTO PAYMENT (PMTID, PMTMETHOD) VALUES (001, 'Cash'); INSERT INTO PAYMENT (PMTID, PMTMETHOD) VALUES (002, 'Check'); INSERT INTO PAYMENT (PMTID, PMTMETHOD) VALUES (003, 'Visa'); INSERT INTO PAYMENT (PMTID, PMTMETHOD) VALUES (004, 'MasterCard');

```
INSERT INTO PAYMENT (PMTID, PMTMETHOD) VALUES (005, 'Discover'); INSERT INTO PAYMENT (PMTID, PMTMETHOD) VALUES (006, 'AMex'); INSERT INTO PAYMENT (PMTID, PMTMETHOD) VALUES (007, 'PayPal'); INSERT INTO PAYMENT (PMTID, PMTMETHOD) VALUES (008, 'Venmo'); INSERT INTO PAYMENT (PMTID, PMTMETHOD) VALUES (009, 'Square'); INSERT INTO PAYMENT (PMTID, PMTMETHOD) VALUES (010, 'Fund Xfer');
```

INSERT INTO STORE (STOREID, STORESTREETNUM, STORESTREET, STORECITY, STORESTATE, STOREZIP, STOREPHONENUM) VALUES (001, 7512, '19th Ave', 'San Francisco', 'CA', 94132, '415-124-5689'); INSERT INTO STORE (STOREID, STORESTREETNUM, STORESTREET, STORECITY, STORESTATE, STOREZIP, STOREPHONENUM) VALUES (002, 1070, 'Irving st', 'San Francisco', 'CA', 94122, '415-158-7931');

INSERT INTO STORE (STOREID, STORESTREETNUM, STORESTREET, STORECITY, STORESTATE, STOREZIP, STOREPHONENUM) VALUES (003, 3789, 'Geary Street', 'San Francisco', 'CA', 94121, '415-259-6890');

INSERT INTO STORE (STOREID, STORESTREETNUM, STORESTREET, STORECITY, STORESTATE, STOREZIP, STOREPHONENUM) VALUES (004, 1391, 'El Camino Real', 'San Mateo', 'CA', 94010, '650-679-8403');

INSERT INTO STORE (STOREID, STORESTREETNUM, STORESTREET, STORECITY, STORESTATE, STOREZIP, STOREPHONENUM) VALUES (005, 5531, 'San Salvador Street', 'San Jose', 'CA', 950132, '408-832-4381');

INSERT INTO PRODUCT (PRODUCTID, PRODUCTPRICE, PRODUCTNAME, PRODUCTCODE, PRODUCTDESCRIPTION, PRODUCTCALORIES, PRODUCTSIZE) values (001, '3.00', 'Coffee', 110, 'Regular Coffee', 10, 'Medium');

INSERT INTO PRODUCT (PRODUCTID, PRODUCTPRICE, PRODUCTNAME, PRODUCTCODE, PRODUCTDESCRIPTION, PRODUCTCALORIES, PRODUCTSIZE) values (002, '5.90', 'Kona Coffee', 111, 'Coffe brewed with Kona Coffee Beans, revererd as the best coffee beans in America. This coffee has a balanced taste. Not too bitter, not too sweet,', 5, 'Medium');

INSERT INTO PRODUCT (PRODUCTID, PRODUCTPRICE, PRODUCTNAME, PRODUCTCODE, PRODUCTDESCRIPTION, PRODUCTCALORIES, PRODUCTSIZE) values (003, '7.49', 'Blue Moutain Coffee', 112, 'What is Blue Mountain Coffee you ask? Well, it's coffee that was made with beans from the Jamaican Blue Mountains. This coffee is made with beans that are actually from Jamaica!', 5, 'Medium');

INSERT INTO PRODUCT (PRODUCTID, PRODUCTPRICE, PRODUCTNAME,

PRODUCTCODE, PRODUCTDESCRIPTION, PRODUCTCALORIES, PRODUCTSIZE) values (004, '6.99', 'AA Coffee', 113, 'Medium roast coffee brewed with the famous Kenyan AA Coffee Beans, imported directly from Kenya.', 5, 'Medium');

INSERT INTO PRODUCT (PRODUCTID, PRODUCTPRICE, PRODUCTNAME, PRODUCTCODE, PRODUCTDESCRIPTION, PRODUCTCALORIES, PRODUCTSIZE) values (005, '5.50', 'Peaberry Coffee', 114, 'Drip brew style coffee, this cup of coffee has notes of brown sugary goodness from the Peaberry Beans from Tanzania that it's brewed from whilst maintaining a hint of bitterness that everyone expects from a good cup of coffee.', 35, 'Medium'); INSERT INTO PRODUCT (PRODUCTID, PRODUCTPRICE, PRODUCTNAME, PRODUCTCODE, PRODUCTDESCRIPTION, PRODUCTCALORIES, PRODUCTSIZE) values (006, '9.50', 'Sulawesi Coffee', 115, 'If you're looking for a cup of coffee that's sweet, look no further! Brewed from Sulawesi Toraja Coffee beans imported directly from Indonesia, this cup of coffee is as sweet as the coffee on our menu gets.', 150, 'Medium');

INSERT INTO PRODUCT (PRODUCTID, PRODUCTPRICE, PRODUCTNAME, PRODUCTCODE, PRODUCTDESCRIPTION, PRODUCTCALORIES, PRODUCTSIZE) values (007, '18.50', 'Centeral American Geisha Coffee', 116, 'A rare find, literally. This cup of coffee is brewed from the Central American Geisha coffee beans, a rare coffee bean find. It has a tea-like body with an abundance of sparkling flavors for taste. Get this if you want to demonstrate your inner coffee connoisseur, and especially if you love tea.', 10, 'Medium');

INSERT INTO PRODUCT (PRODUCTID, PRODUCTPRICE, PRODUCTNAME, PRODUCTCODE, PRODUCTDESCRIPTION, PRODUCTCALORIES, PRODUCTSIZE) values (008, '3.00', 'Tea', '222', 'Hot Tea', 5, 'Medium');

INSERT INTO PRODUCT (PRODUCTID, PRODUCTPRICE, PRODUCTNAME, PRODUCTCODE, PRODUCTDESCRIPTION, PRODUCTCALORIES, PRODUCTSIZE) values (009, '4.00', 'Hot Chocolate', 333, 'Chocolate with Coca Powder', 100, 'Small');

INSERT INTO PRODUCT (PRODUCTID, PRODUCTPRICE, PRODUCTNAME, PRODUCTCODE, PRODUCTDESCRIPTION, PRODUCTCALORIES, PRODUCTSIZE) values (010, '1.00', 'Water', 444, 'Hot or Cold Water', 10, 'Large');

INSERT INTO PRODUCT (PRODUCTID, PRODUCTPRICE, PRODUCTNAME, PRODUCTCODE, PRODUCTDESCRIPTION, PRODUCTCALORIES, PRODUCTSIZE) values (011, '2.00', 'Juice', 555, 'Tropicana', 10, 'Medium');

INSERT INTO EMPLOYEE (EMPID, STOREID, EMPFNAME, EMPLNAME, EMPSTREETNUM, EMPSTREETNAME, EMPCITY, EMPSTATE, EMPZIP, EMPSTARTDATE, EMPENDDATE) values (001, 001, 'Yule', 'Verdun', 228, 'Cambridge Avenue', 'Lancaster', 'CA', '94132', '190411', '150813');

INSERT INTO EMPLOYEE (EMPID, STOREID, EMPFNAME, EMPLNAME, EMPSTREETNUM, EMPSTREETNAME, EMPCITY, EMPSTATE, EMPZIP, EMPSTARTDATE, EMPENDDATE) values (002, 002, 'Emily', 'Weber', 7747, 'Center Way', 'Bismarck', 'ND', '90112', '051113', '140615');

INSERT INTO EMPLOYEE (EMPID, STOREID, EMPFNAME, EMPLNAME, EMPSTREETNUM, EMPSTREETNAME, EMPCITY, EMPSTATE, EMPZIP, EMPSTARTDATE, EMPENDDATE) values (003, 003, 'Julie', 'Ellwood', 2810, 'Ryan Street', 'Lancaster', 'WA', '89093', '101211', '140814');

INSERT INTO EMPLOYEE (EMPID, STOREID, EMPFNAME, EMPLNAME, EMPSTREETNUM, EMPSTREETNAME, EMPCITY, EMPSTATE, EMPZIP, EMPSTARTDATE, EMPENDDATE) values (004, 004, 'Cedric', 'Pedrazzi', 5, 'Amoth Avenue', 'Albany', 'NY', '79291', '081012', '010717');

INSERT INTO EMPLOYEE (EMPID, STOREID, EMPFNAME, EMPLNAME, EMPSTREETNUM, EMPSTREETNAME, EMPCITY, EMPSTATE, EMPZIP, EMPSTARTDATE, EMPENDDATE) values (005, 005, 'Rocky', 'Viola', 198, 'Tony Court', 'Knoxville', 'TN', '32413', '020212', '071118');

INSERT INTO CUSTORDER (ORDERID, ORDERCOST, ORDERDATE, ORDERQUANTITY, CUSTID, PMTID, STOREID, EMPID) values (010, 4.20, '020815', 2, 100, 002, 002, 003);

INSERT INTO CUSTORDER (ORDERID, ORDERCOST, ORDERDATE, ORDERQUANTITY, CUSTID, PMTID, STOREID, EMPID) values (020, 5.19, '041212', 3, 101, 006, 001, 001);

INSERT INTO CUSTORDER (ORDERID, ORDERCOST, ORDERDATE, ORDERQUANTITY, CUSTID, PMTID, STOREID, EMPID) values (030, 6.00, '140118', 4, 102, 007, 003, 002);

INSERT INTO CUSTORDER (ORDERID, ORDERCOST, ORDERDATE, ORDERQUANTITY, CUSTID, PMTID, STOREID, EMPID) values (040, 3.50, '140818', 1, 103, 010, 004, 004);

INSERT INTO CUSTORDER (ORDERID, ORDERCOST, ORDERDATE, ORDERQUANTITY, CUSTID, PMTID, STOREID, EMPID) values (050, 7.50, '170512', 2, 104, 009, 001, 005);

INSERT INTO CUSTORDER (ORDERID, ORDERCOST, ORDERDATE, ORDERQUANTITY, CUSTID, PMTID, STOREID, EMPID) values (060, 8.70, '180613', 2, 105, 009, 001, 005);

INSERT INTO CUSTORDER (ORDERID, ORDERCOST, ORDERDATE, ORDERQUANTITY, CUSTID, PMTID, STOREID, EMPID) values (070, 10.50, '190714', 3, 106, 009, 001, 005);

INSERT INTO CUSTORDER (ORDERID, ORDERCOST, ORDERDATE, ORDERQUANTITY, CUSTID, PMTID, STOREID, EMPID) values (080, 12.95, '220516', 5, 107, 009, 001, 005);

INSERT INTO CUSTORDER (ORDERID, ORDERCOST, ORDERDATE, ORDERQUANTITY, CUSTID, PMTID, STOREID, EMPID) values (090, 5.50, '251015', 7, 108, 009, 001, 005);

INSERT INTO CUSTORDER (ORDERID, ORDERCOST, ORDERDATE, ORDERQUANTITY, CUSTID, PMTID, STOREID, EMPID) values (100, 15.50, '160812', 10, 109, 009, 001, 005);

INSERT INTO BELONGS (ORDERID, PRODUCTID, ORDERQUANTITY) values (010, 004, 5);

INSERT INTO BELONGS (ORDERID, PRODUCTID, ORDERQUANTITY) values (020, 002, 2);

INSERT INTO BELONGS (ORDERID, PRODUCTID, ORDERQUANTITY) values (030, 003, 1); INSERT INTO BELONGS (ORDERID, PRODUCTID, ORDERQUANTITY) values (040, 006, 4);

INSERT INTO BELONGS (ORDERID, PRODUCTID, ORDERQUANTITY) values (050, 002, 3);

Database Queries

/*Retrieve all possible Payment Methods*/
SELECT * PMTMETHOD FROM PAYMENT;

/* Verifying the existence of a specific payment method (e.g. Visa) */
SELECT 1 FROM PAYMENT WHERE PMTMETHOD = "Visa";

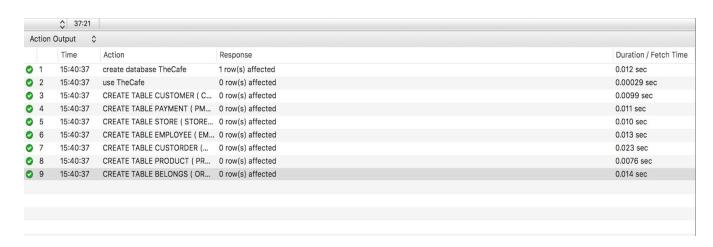
/* List all of The Cafe's store location street addresses with city and with specific store ID's*/ SELECT STORESTREET, STORECITY, STOREID FROM STORE;

/*Retrieve Store phone numbers w/ store ID*/
SELECT STOREID, STOREPHONENUM FROM STORE;

/* Get all product over \$5*/
SELECT PRODUCTID FROM PRODUCT
WHERE PRODUCTPRICE>5;

/* Get all customers that are members*/
SELECT CUSTFNAME, CUSTLNAME FROM CUSTOMER
WHERE CUSTMEMBERSHIP = 'yes'

Database Creation Commands Log



Data Insertion Commands Log

Action Output 💠						
		Time	Action	Response		
0	1	17:27:04	INSERT INTO CUSTOMER (CUSTID, CUSTFNAME, CUSTLNAME, C	1 row(s) affected		
0	2	17:27:04	INSERT INTO CUSTOMER (CUSTID, CUSTFNAME, CUSTLNAME, C	1 row(s) affected		
0	3	17:27:04	INSERT INTO CUSTOMER (CUSTID, CUSTFNAME, CUSTLNAME, C	1 row(s) affected		
0	4	17:27:04	INSERT INTO CUSTOMER (CUSTID, CUSTFNAME, CUSTLNAME, C	1 row(s) affected		
0	5	17:27:04	INSERT INTO CUSTOMER (CUSTID, CUSTFNAME, CUSTLNAME, C	1 row(s) affected		
0	6	17:27:04	INSERT INTO CUSTOMER (CUSTID, CUSTFNAME, CUSTLNAME, C	1 row(s) affected		
0	7	17:27:04	INSERT INTO CUSTOMER (CUSTID, CUSTFNAME, CUSTLNAME, C	1 row(s) affected		
0	8	17:27:04	INSERT INTO CUSTOMER (CUSTID, CUSTFNAME, CUSTLNAME, C	1 row(s) affected		
0	9	17:27:04	INSERT INTO CUSTOMER (CUSTID, CUSTFNAME, CUSTLNAME, C	1 row(s) affected		
0	10	17:27:04	INSERT INTO CUSTOMER (CUSTID, CUSTFNAME, CUSTLNAME, C	1 row(s) affected		
0	11	17:27:04	INSERT INTO CUSTOMER (CUSTID, CUSTFNAME, CUSTLNAME, C	1 row(s) affected		
0	12	17:27:04	INSERT INTO PAYMENT (PMTID, PMTMETHOD) VALUES (001, 'Cas	1 row(s) affected		
0	13	17:27:04	INSERT INTO PAYMENT (PMTID, PMTMETHOD) VALUES (002, 'Che	1 row(s) affected		
0	14	17:27:04	INSERT INTO PAYMENT (PMTID, PMTMETHOD) VALUES (003, 'Visa')	1 row(s) affected		
0	15	17:27:04	INSERT INTO PAYMENT (PMTID, PMTMETHOD) VALUES (004, 'Ma	1 row(s) affected		
0	16	17:27:04	INSERT INTO PAYMENT (PMTID, PMTMETHOD) VALUES (005, 'Dis	1 row(s) affected		
0	17	17:27:04	INSERT INTO PAYMENT (PMTID, PMTMETHOD) VALUES (006, 'AM	1 row(s) affected		
0	18	17:27:04	INSERT INTO PAYMENT (PMTID, PMTMETHOD) VALUES (007, 'Pay	1 row(s) affected		
0	19	17:27:04	INSERT INTO PAYMENT (PMTID, PMTMETHOD) VALUES (008, 'Ven	1 row(s) affected		
0	20	17:27:04	INSERT INTO PAYMENT (PMTID, PMTMETHOD) VALUES (009, 'Squ	1 row(s) affected		
0	21	17:27:04	INSERT INTO PAYMENT (PMTID, PMTMETHOD) VALUES (010, 'Fun	1 row(s) affected		
0	22	17:27:04	INSERT INTO STORE (STOREID, STORESTREETNUM, STORESTREE	1 row(s) affected		
0	23	17:27:04	INSERT INTO STORE (STOREID, STORESTREETNUM, STORESTREE	1 row(s) affected		
0	24	17:27:04	INSERT INTO STORE (STOREID, STORESTREETNUM, STORESTREE	1 row(s) affected		

24	17:27:04	INSERT INTO STORE (STOREID, STORESTREETNUM, STORESTREE 1 row(s) affected	
25	17:27:04	INSERT INTO STORE (STOREID, STORESTREETNUM, STORESTREE 1 row(s) affected	
26	17:27:04	INSERT INTO STORE (STOREID, STORESTREETNUM, STORESTREE 1 row(s) affected	
27	17:27:04	INSERT INTO PRODUCT (PRODUCTID, PRODUCTPRICE, PRODUCT 1 row(s) affected	
28	17:27:04	INSERT INTO PRODUCT (PRODUCTID, PRODUCTPRICE, PRODUCT 1 row(s) affected	
29	17:27:04	INSERT INTO PRODUCT (PRODUCTID, PRODUCTPRICE, PRODUCT 1 row(s) affected	
30	17:27:04	INSERT INTO PRODUCT (PRODUCTID, PRODUCTPRICE, PRODUCT 1 row(s) affected	
31	17:27:04	INSERT INTO PRODUCT (PRODUCTID, PRODUCTPRICE, PRODUCT 1 row(s) affected	
32	17:27:04	INSERT INTO PRODUCT (PRODUCTID, PRODUCTPRICE, PRODUCT 1 row(s) affected	
33	17:27:04	INSERT INTO PRODUCT (PRODUCTID, PRODUCTPRICE, PRODUCT 1 row(s) affected	4
34	17:27:04	INSERT INTO PRODUCT (PRODUCTID, PRODUCTPRICE, PRODUCT 1 row(s) affected	
35	17:27:04	INSERT INTO PRODUCT (PRODUCTID, PRODUCTPRICE, PRODUCT 1 row(s) affected	
36	17:27:04	INSERT INTO PRODUCT (PRODUCTID, PRODUCTPRICE, PRODUCT 1 row(s) affected	
37	17:27:04	INSERT INTO PRODUCT (PRODUCTID, PRODUCTPRICE, PRODUCT 1 row(s) affected	
38	17:27:04	INSERT INTO EMPLOYEE (EMPID, STOREID, EMPFNAME, EMPLNA 1 row(s) affected	
39	17:27:04	INSERT INTO EMPLOYEE (EMPID, STOREID, EMPFNAME, EMPLNA 1 row(s) affected	
40	17:27:04	INSERT INTO EMPLOYEE (EMPID, STOREID, EMPFNAME, EMPLNA 1 row(s) affected	
41	17:27:04	INSERT INTO EMPLOYEE (EMPID, STOREID, EMPFNAME, EMPLNA 1 row(s) affected	- 1
42	17:27:04	INSERT INTO EMPLOYEE (EMPID, STOREID, EMPFNAME, EMPLNA 1 row(s) affected	
43	17:27:04	INSERT INTO CUSTORDER (ORDERID, ORDERCOST, ORDERDATE, 1 row(s) affected	
44	17:27:04	INSERT INTO CUSTORDER (ORDERID, ORDERCOST, ORDERDATE, 1 row(s) affected	
45	17:27:04	INSERT INTO CUSTORDER (ORDERID, ORDERCOST, ORDERDATE, 1 row(s) affected	
46	17:27:04	INSERT INTO CUSTORDER (ORDERID, ORDERCOST, ORDERDATE, 1 row(s) affected	
47	17:27:04	INSERT INTO CUSTORDER (ORDERID, ORDERCOST, ORDERDATE, 1 row(s) affected	
9 47	17:27:04	INSERT INTO CUSTORDER (ORDERID, ORDERCOST, ORDERDATE, 1 row(s) affected	
9 48	17:27:04	INSERT INTO CUSTORDER (ORDERID, ORDERCOST, ORDERDATE, 1 row(s) affected	
9 49	17:27:04	INSERT INTO CUSTORDER (ORDERID, ORDERCOST, ORDERDATE, 1 row(s) affected	
50	17:27:04	INSERT INTO CUSTORDER (ORDERID, ORDERCOST, ORDERDATE, 1 row(s) affected	
51	17:27:04	INSERT INTO CUSTORDER (ORDERID, ORDERCOST, ORDERDATE, 1 row(s) affected	
52	17:27:04	INSERT INTO CUSTORDER (ORDERID, ORDERCOST, ORDERDATE, 1 row(s) affected	
53	17:27:04	INSERT INTO BELONGS (ORDERID, PRODUCTID, ORDERQUANTITY 1 row(s) affected	
54	17:27:04	INSERT INTO BELONGS (ORDERID, PRODUCTID, ORDERQUANTITY 1 row(s) affected	
_	17:27:04	INSERT INTO BELONGS (ORDERID, PRODUCTID, ORDERQUANTITY 1 row(s) affected	
55 56	17:27:04	INSERT INTO BELONGS (ORDERID, PRODUCTID, ORDERQUANTITY 1 row(s) affected	

Database Query Logs

