

CS 5200 - Database Management Systems

**Database Project - Final
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Fall 2023**

maker link 

PART 1: PROPOSAL

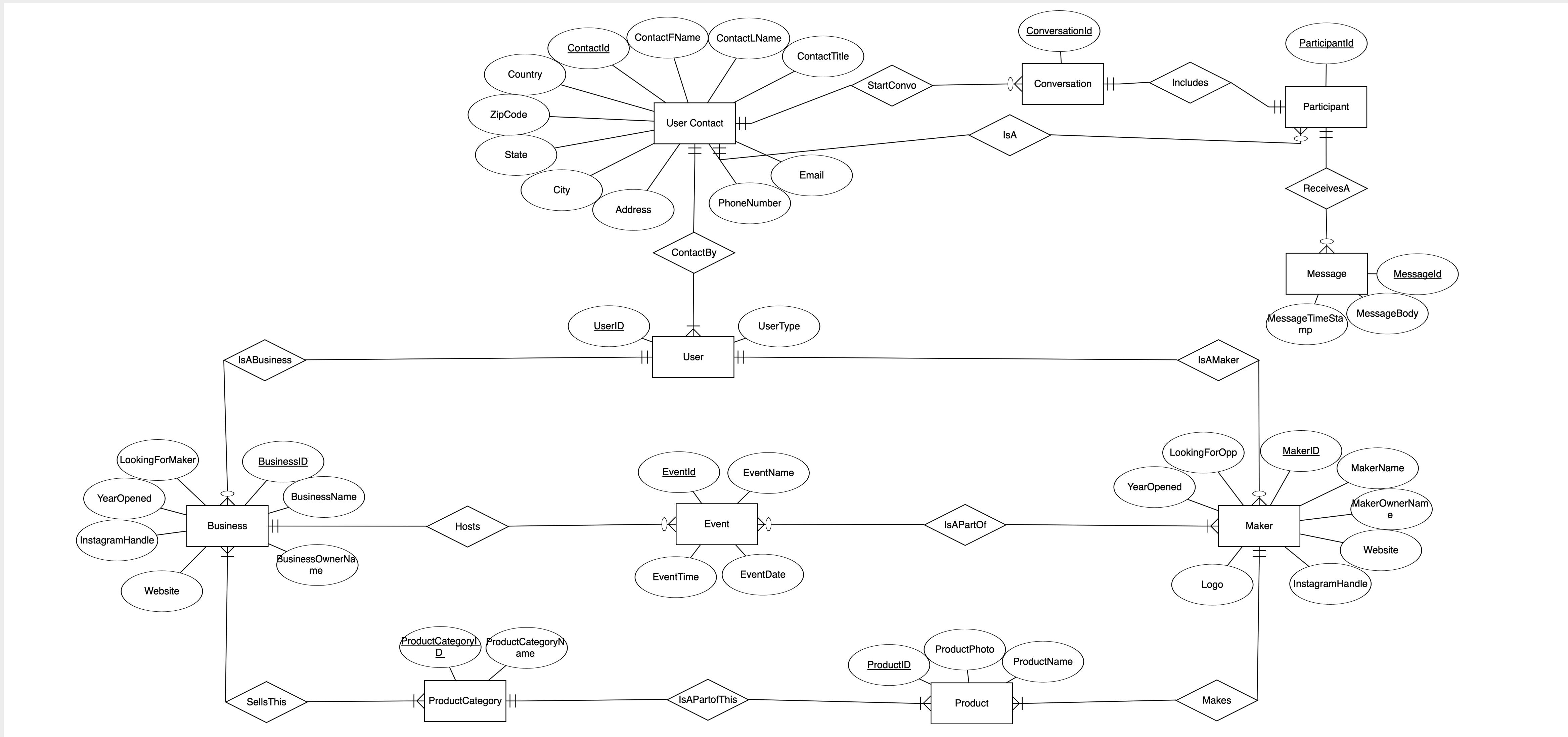
I worked on a prototype, called Maker Link, in the CS5340 Computer/Human Interaction course over the summer. The idea was to create a platform to help connect local small makers/artists with small businesses within the same area that would like to host pop-ups and events throughout the year. This would reduce the degree of separation between the two communities and provide a resource for customers to know of events happening in their area with a centralized calendar.

The database for this would hold the necessary data to keep track of both businesses and makers, along with their communication with each other, the events held, and the product and product category information.

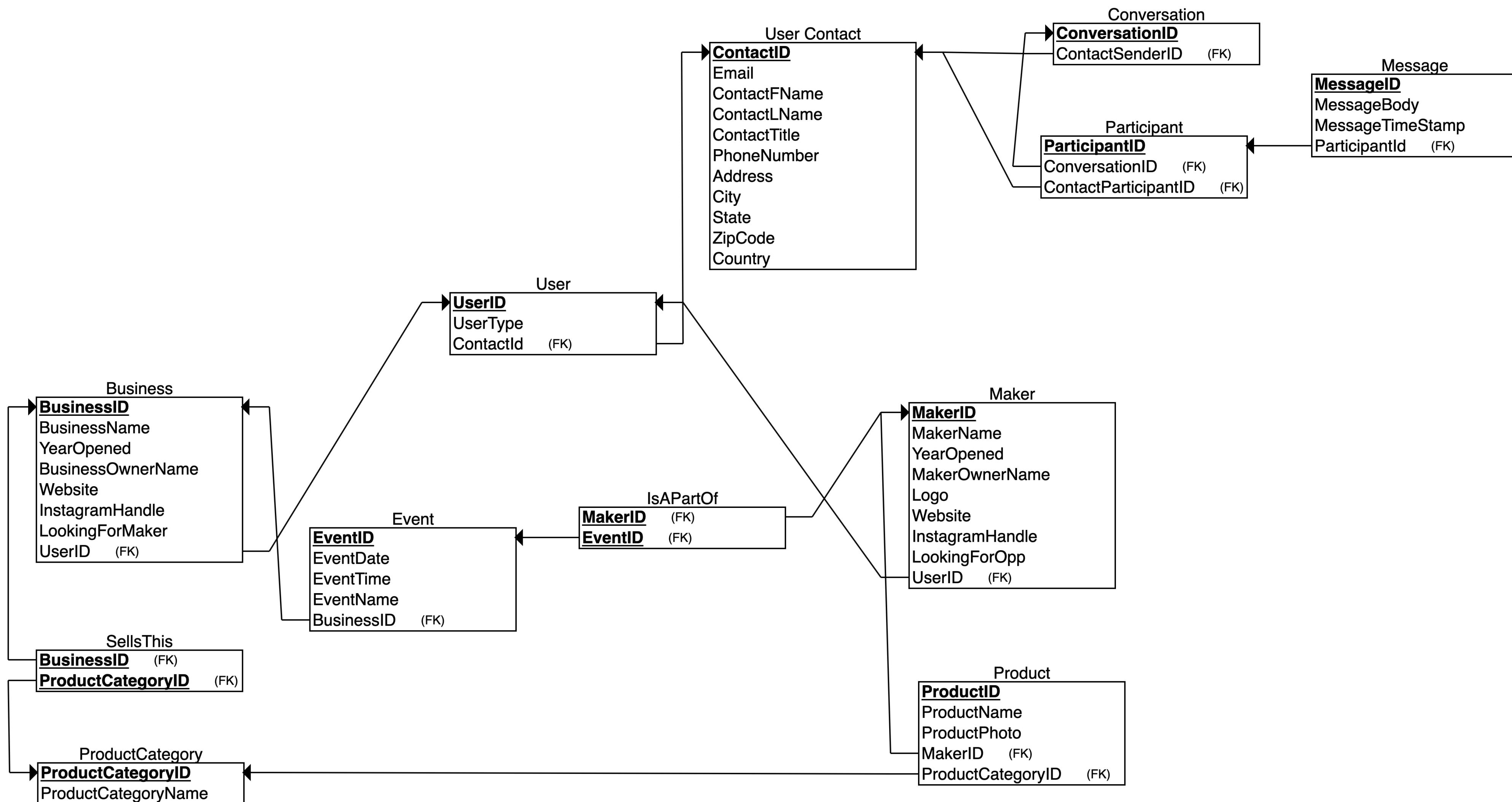
PART 1: LIST OF REQUIREMENTS

- Businesses that host the pop-ups and are looking for makers, artists, and vendors
- Makers and artists that are looking to sell at local pop-ups and connect with businesses
- Record details for each business and maker, such as name, year opened, owner name, website, social media, and whether a business is looking for makers or a maker is looking for opportunities to be part of a pop-up
- Record the main contact for each user, the title of the contact, along with address phone number, and email
- The user contact will be used for the messaging component, text only
- Categories of goods that the businesses are looking for
- Instances of product that the makers sell, photographs of these products, and which product category the product is a part of
- Events that the businesses hold and which makers are a part of each event
- The ability to expand the database to include food and drink businesses that could be recruited for events

PART 2: ENTITY-RELATIONSHIP MODEL

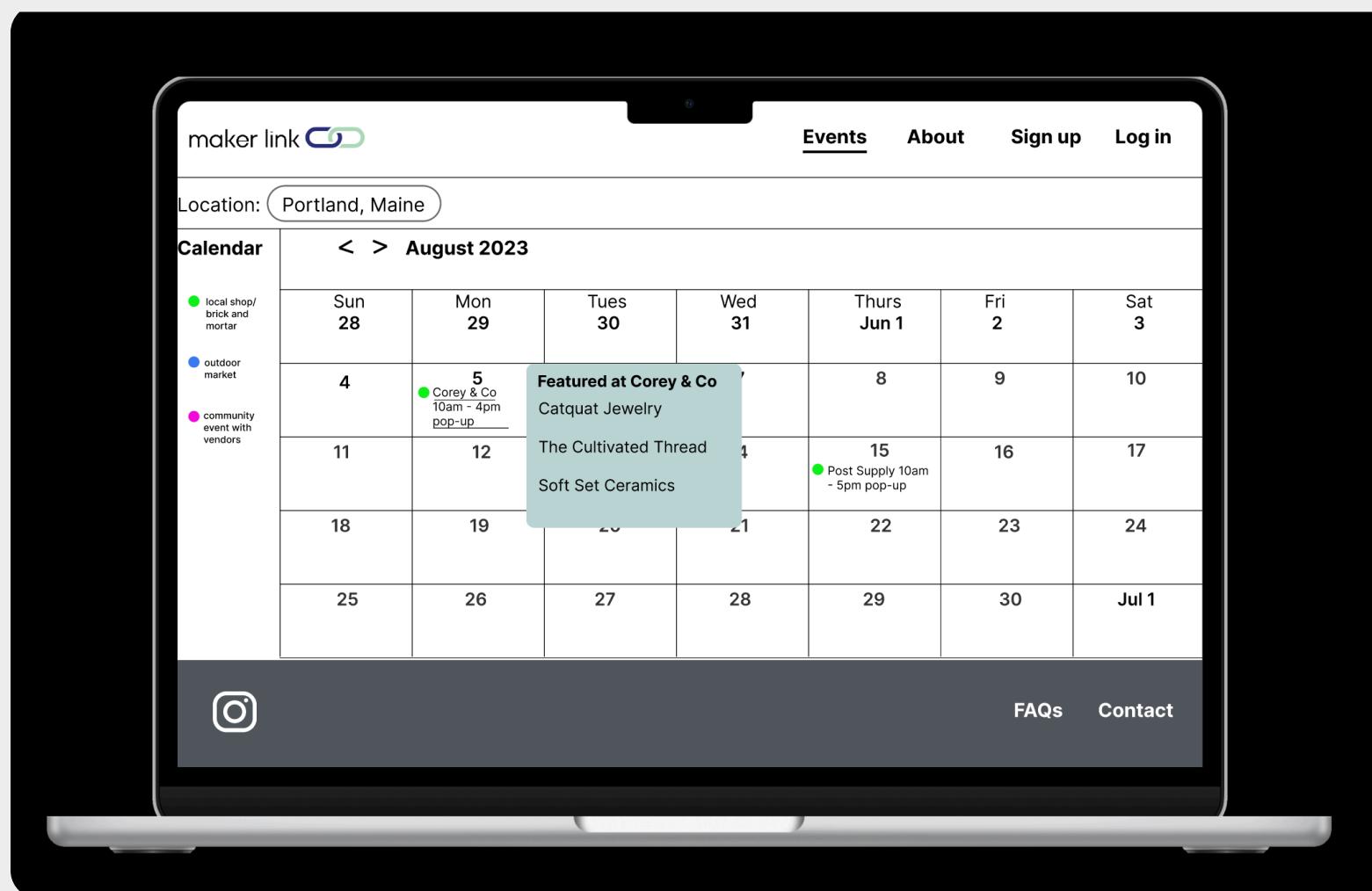
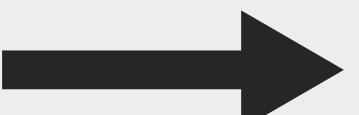
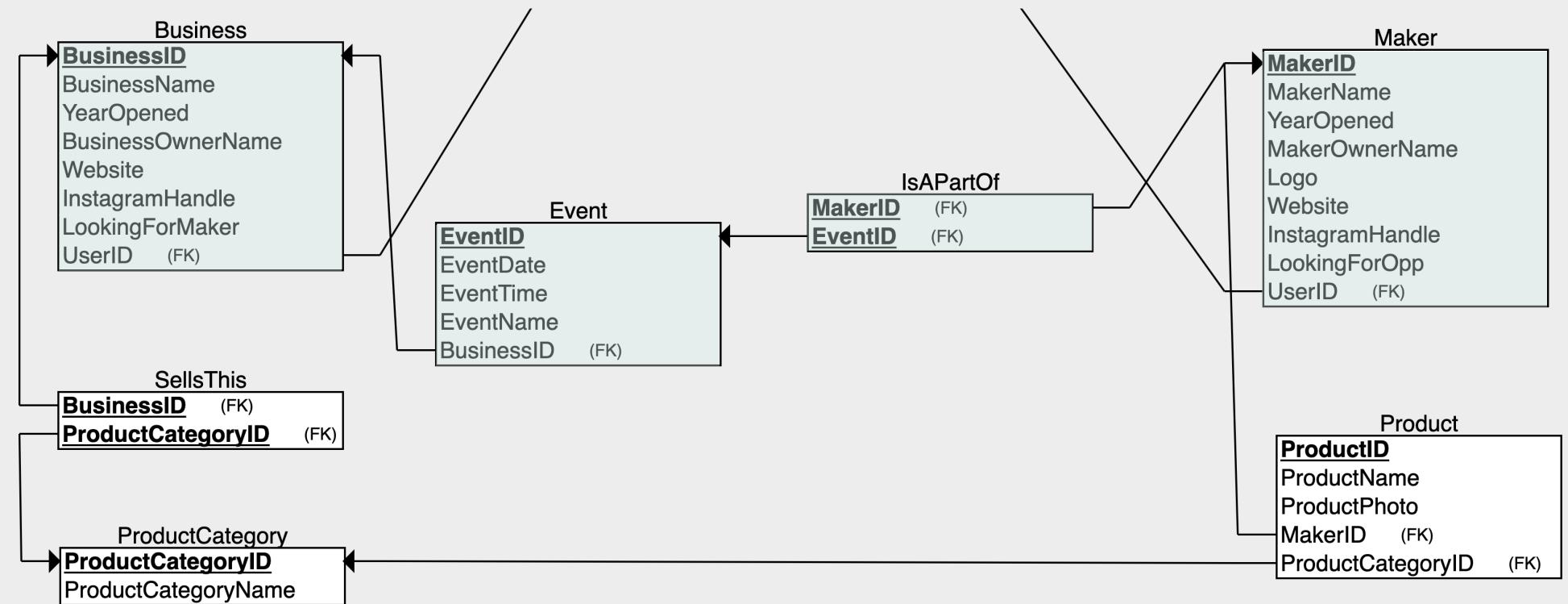


PART 3: RELATIONAL MODEL



PART 3: RELATIONAL MODEL CONTINUED

Example of how it relates to the prototype:



PART 4: DATABASE SCHEMA

```
CREATE TABLE User_Contact
(
    ContactID INT AUTO_INCREMENT NOT NULL,
    ContactFName VARCHAR(75) NOT NULL,
    ContactLName VARCHAR(75) NOT NULL,
    ContactTitle VARCHAR(50) NOT NULL,
    PhoneNumber VARCHAR(50) NOT NULL,
    Email VARCHAR(75) NOT NULL,
    Address VARCHAR(75) NOT NULL,
    City VARCHAR(75) NOT NULL,
    State CHAR(2) NOT NULL,
    ZipCode VARCHAR(25) NOT NULL,
    Country VARCHAR(50) NOT NULL,
    PRIMARY KEY (ContactID)
);

CREATE TABLE User
(
    UserID INT AUTO_INCREMENT NOT NULL,
    UserType VARCHAR(25) NOT NULL,
    ContactID INT NOT NULL,
    PRIMARY KEY (UserID),
    FOREIGN KEY (ContactID) REFERENCES UserContact(ContactID)
);

CREATE TABLE Business
(
    BusinessID INT AUTO_INCREMENT NOT NULL,
    BusinessName VARCHAR(75) NOT NULL,
    BusinessOwnerName VARCHAR(75) NOT NULL,
    YearOpened INT NOT NULL,
    Website VARCHAR(75) NOT NULL,
    InstagramHandle VARCHAR(50) NOT NULL,
    LookingForMaker CHAR(3) NOT NULL,
    UserID INT NOT NULL,
    PRIMARY KEY (BusinessID),
    FOREIGN KEY(UserID) REFERENCES User(UserID)
);

CREATE TABLE Maker
(
    MakerID INT AUTO_INCREMENT NOT NULL,
    MakerName VARCHAR(75) NOT NULL,
    MakerOwnerName VARCHAR(75) NOT NULL,
    YearOpened INT NOT NULL,
    Website VARCHAR(75) NOT NULL,
    InstagramHandle VARCHAR(50) NOT NULL,
    LookingForOpp CHAR(3) NOT NULL,
    MakerLogo VARCHAR(1000),
    UserID INT NOT NULL,
    PRIMARY KEY (MakerID),
    FOREIGN KEY(UserID) REFERENCES User(UserID)
);

CREATE TABLE ProductCategory
(
    ProductCategoryID INT AUTO_INCREMENT NOT NULL,
    ProductCategoryName VARCHAR(75) NOT NULL,
    PRIMARY KEY (ProductCategoryID)
);

CREATE TABLE SellsThis
(
    BusinessID INT NOT NULL,
    ProductCategoryID INT NOT NULL,
    PRIMARY KEY (BusinessID, ProductCategoryID),
    FOREIGN KEY (BusinessID) REFERENCES Business(BusinessID),
    FOREIGN KEY (ProductCategoryID) REFERENCES ProductCategory(ProductCategoryID)
);

CREATE TABLE Product
(
    ProductID INT AUTO_INCREMENT NOT NULL,
    ProductName VARCHAR(75) NOT NULL,
    ProductPhoto VARCHAR(1000) NOT NULL,
    MakerID INT NOT NULL,
    ProductCategoryID INT NOT NULL,
    PRIMARY KEY (ProductID),
    FOREIGN KEY (MakerID) REFERENCES Maker(MakerID),
    FOREIGN KEY (ProductCategoryID) REFERENCES ProductCategory(ProductCategoryID)
);

CREATE TABLE Event
(
    EventId INT AUTO_INCREMENT NOT NULL,
    EventName VARCHAR(75) NOT NULL,
    EventDate DATE NOT NULL,
    EventTime TIME NOT NULL,
    BusinessID INT NOT NULL,
    PRIMARY KEY (EventId),
    FOREIGN KEY (BusinessID) REFERENCES Business(BusinessID)
);

CREATE TABLE IsAPartOf
(
    MakerID INT NOT NULL,
    EventId INT NOT NULL,
    PRIMARY KEY (MakerID, EventId),
    FOREIGN KEY (MakerID) REFERENCES Maker(MakerID),
    FOREIGN KEY (EventId) REFERENCES Event(EventId)
);

CREATE TABLE Conversation
(
    ConversationID INT AUTO_INCREMENT NOT NULL,
    ContactSenderId INT NOT NULL,
    PRIMARY KEY (ConversationID),
    FOREIGN KEY (ContactSenderId) REFERENCES UserContact(ContactID)
);

CREATE TABLE Participant
(
    ParticipantID INT AUTO_INCREMENT NOT NULL,
    ConversationID INT NOT NULL,
    ContactParticipantID INT NOT NULL,
    PRIMARY KEY (ParticipantID),
    FOREIGN KEY (ConversationID) REFERENCES Conversation(ConversationID),
    FOREIGN KEY (ContactParticipantID) REFERENCES UserContact(ContactID)
);

CREATE TABLE Message
(
    MessageID INT AUTO_INCREMENT NOT NULL,
    MessageBody TEXT,
    MessageTimeStamp TIMESTAMP NOT NULL,
    ParticipantID INT NOT NULL,
    PRIMARY KEY (MessageID),
    FOREIGN KEY (ParticipantID) REFERENCES Participant(ParticipantID)
);
```

PART 5: INSTALLED DATABASE - INSERT

Maker

The screenshot shows a database interface with a toolbar at the top and a table list on the left. The 'Query' tab is selected. The code in the main area is:

```
1 INSERT INTO Maker
  (MakerName, MakerOwnerName, Address, City, State, ZipCode, Country, YearOpened, Website, InstagramHandle, LookingForOpp)
2 VALUES ('Catquat Jewelry', 'Cat Quattrociocchi', '93 Washington Ave', 'Portland', 'ME', '04101', 'United States', '2014', 'https://www.catquattrociocchi.net/', '@_catquat', 'yes');
3
4 INSERT INTO Maker
  (MakerName, MakerOwnerName, Address, City, State, ZipCode, Country, YearOpened, Website, InstagramHandle, LookingForOpp)
5 VALUES ('Softset Ceramics', 'Mimi Olins', '81 Clark Street', 'Portland', 'ME', '04102', 'United States', '2013', 'https://www.softsetceramics.com/', '@softsetceramics', 'no');
6
7 INSERT INTO Maker
  (MakerName, MakerOwnerName, Address, City, State, ZipCode, Country, YearOpened, Website, InstagramHandle, LookingForOpp)
8 VALUES ('ANK Ceramics', 'Ariela Nomi Kuh', '1 Pleasant Street 2W', 'Portland', 'ME', '04102', 'United States', '2014', 'https://www.ankceramics.com/', '@a_n_k_ceramics', 'yes');
9
10 INSERT INTO Maker
  (MakerName, MakerOwnerName, Address, City, State, ZipCode, Country, YearOpened, Website, InstagramHandle, LookingForOpp)
11 VALUES ('Chloe May Brown ', 'Chloe May Brown ', '131 Sprint Street ', 'Portland', 'ME', '04101', 'United States', '2012', 'https://www.chloemaybrown.com/', '@cmb123', 'no');
```

Category

The screenshot shows a database interface with a toolbar at the top and a table list on the left. The 'Query' tab is selected. The code in the main area is:

```
1 INSERT INTO Category(CategoryName)
2 VALUES ('Ceramics');
3 INSERT INTO Category(CategoryName)
4 VALUES ('Jewelry');
5 INSERT INTO Category(CategoryName)
6 VALUES ('Textiles');
```

Business

The screenshot shows a database interface with a toolbar at the top and a table list on the left. The 'Query' tab is selected. The code in the main area is:

```
1 INSERT INTO Business
  (BusinessName, BusinessOwnerName, Address, City, State, ZipCode, Country, YearOpened, Website, InstagramHandle, LookingForMaker)
2 VALUES ('Corey & Co', 'Barbara Corey', '19 Pleasant Street', 'Portland', 'ME', '04101', 'United States', '2009', 'https://www.coreyandco.me/', '@coreyandco', 'no');
3 INSERT INTO Business
  (BusinessName, BusinessOwnerName, Address, City, State, ZipCode, Country, YearOpened, Website, InstagramHandle, LookingForMaker)
4 VALUES ('Blanche and Mimi', 'Hilary Sinauer', '195 Commercial Street', 'Portland', 'ME', '04101', 'United States', '2007', 'https://blancheandmimi.com/', '@blancheandmimi', 'yes');
5 INSERT INTO Business
  (BusinessName, BusinessOwnerName, Address, City, State, ZipCode, Country, YearOpened, Website, InstagramHandle, LookingForMaker)
6 VALUES ('Pinecone + Chickadee', 'Amy Teh', '6 Free Street', 'Portland', 'ME', '04101', 'United States', '2008', 'https://pineconeandchickadee.com/', '@pineconeandchickadee', 'yes');
```

SellsThis

The screenshot shows a database interface with a toolbar at the top and a table list on the left. The 'Query' tab is selected. The code in the main area is:

```
1 INSERT INTO SellsThis (BusinessID, ProductCategoryID) VALUES (4, 3);
2 INSERT INTO SellsThis (BusinessID, ProductCategoryID) VALUES (5, 2);
3 INSERT INTO SellsThis (BusinessID, ProductCategoryID) VALUES (6, 2);
4 INSERT INTO SellsThis (BusinessID, ProductCategoryID) VALUES (6, 3);
5 INSERT INTO SellsThis (BusinessID, ProductCategoryID) VALUES (7, 2);
6 INSERT INTO SellsThis (BusinessID, ProductCategoryID) VALUES (8, 1);
7 INSERT INTO SellsThis (BusinessID, ProductCategoryID) VALUES (8, 3);
```

PART 5: INSTALLED DATABASE - SELECT

User Contact

```
1 | SELECT * FROM UserContact;
```

The screenshot shows a database query interface with the following details:

- Query Bar:** Contains the SQL command: `1 | SELECT * FROM UserContact;`
- Toolbar:** Includes "Query Favorites", "Query History", and "Run Current" button.
- Table Structure:** The `UserContact` table has the following columns:
 - ContactID (INT)
 - ContactFName (VARCHAR)
 - ContactLName (VARCHAR)
 - ContactTitle (VARCHAR)
 - PhoneNumber (VARCHAR)
 - Email (VARCHAR)
 - Address (VARCHAR)
 - City (VARCHAR)
 - State (CHAR)
 - ZipCode (VARCHAR)
 - Country (VARCHAR)
- Data Rows:** 15 rows of user contact information are displayed, starting with ContactID 1 and ending with ContactID 15. The data includes names like Hannah Haehn, Stef Jenkins, Jess Reeves, etc., along with their contact details and addresses in Portland, ME.

ContactID	ContactFName	ContactLName	ContactTitle	PhoneNumber	Email	Address	City	State	ZipCode	Country
1	Hannah	Haehn	Co-Owner	207-358-0592	shop@thepostsupply.com	65 Washington Ave	Portland	ME	04101	United States
2	Stef	Jenkins	Manager	207-835-6101	shop@gusandruby.com	28 Exchange Street	Portland	ME	04101	United States
3	Jess	Reeves	Buyer	207-772-9280	info@pineconeandchickadee.c...	6 Free Street	Portland	ME	04101	United States
4	Mimi	Olins	Owner	207-234-5678	hello@softsetceramics.com	81 Clark Street	Portland	ME	04102	United States
5	Ariela	Nomi Kuh	Owner	207-578-7891	info@ankceramics.com	1 Pleasant Street 2W	Portland	ME	04102	United States
6	Hilary	Sinauer	Owner	207-774-3900	hello@blancheandmimi.com	195 Commercial Street	Portland	ME	04101	United States
7	Barbara	Barbara	Owner	207-761-4200	coreyandco@gmail.com	19 Pleasant Street	Portland	ME	04101	United States
8	Jessica	Thomas	Owner	207-613-9639	hello@handiworkportland.com	199 Pleasant Ave	Portland	ME	04103	United States
9	Lauren	Siviski	Owner	207-835-0485	hello@fitzandbennetthome.com	43 Silver Street	Portland	ME	04103	United States
10	Samantha	Knopf	Owner	207-123-4567	info@smallsshopnotreal.com	28 Brackett Street	Portland	ME	04102	United States
11	Cat	Quattrociocchi	Owner	207-123-9875	catquattrociocchi@gmail.com	93 Washington Avenue Unit 2	Portland	ME	04101	United States
12	Chloe	May Brown	Owner	207-987-6543	hi@chloemaybrown.com	131 Spring Street	Portland	ME	04101	United States
13	Hilary	Crowell	Owner	207-987-1234	thecultivatedthread@gmail.com	227 Old Sheepscot Road	Wiscasset	ME	04578	United States
14	Emily	Percival	Owner	510-910-3525	epercivaljewelry@gmail.com	123 Congress Street	Portland	ME	04101	United States
15	Rebecca	Perea-Kane	Owner	603-953-4245	rebecca@shopticket.com	93 Washington Ave Unit 1	Portland	ME	04101	United States

PART 5: INSTALLED DATABASE - SELECT

User

```
1 SELECT * FROM User;
```

Query Favorites Query History

UserID	UserType	ContactID
100	business	1
101	business	2
102	business	3
103	maker	4
104	maker	5
105	business	6
106	business	7
107	business	8
108	business	9
109	business	10
110	maker	11
111	maker	12
112	maker	13
113	maker	14
114	maker	15

Business

```
1 SELECT * FROM Business;
```

Select Database Structure Content Relations Triggers Table Info **Query** Table History Users Console

Run Current

BusinessID	BusinessName	BusinessOwnerName	YearOpened	Website	InstagramHandle	LookingForMaker	UserID
1	The Post Supply	Katie Bowes	2021	https://www.thepostsupply.com/	@thepost.supply	yes	100
2	Gus & Ruby Letterpress	Samantha Finnegan	2009	https://gusandruby.com/	@gusandrubyletterpress	yes	101
3	Pinecone + Chickadee	Amy Teh	2008	https://pineconeandchickadee.com/	@pineconeandchickadee	yes	102
4	Blanche and Mimi	Hilary Sinauer	2007	https://blancheandmimi.com/	@blancheandmimi	yes	105
5	Corey & Co	Barbara Corey	2009	https://www.coreyandco.me/	@coreyandco	no	106
6	Handiwork Studio + Market	Jessica Thomas	2020	https://handiworkportland.com/	@handiworkportland	yes	107
7	Fitz & Bennet Home	Lauren Siviski	2017	https://fitzandbennethome.com/	@fitzbennethome	no	108
8	Smalls	Samantha Knopf	2022	https://www.smallsisgood.com/	@smallsisgood	yes	109

PART 5: INSTALLED DATABASE - SELECT

Maker

```
1 | SELECT * FROM Maker;
```

The screenshot shows a database query results table. At the top, there are navigation links for 'Query Favorites' and 'Query History'. Below the header, there are 7 rows of data, each representing a maker entry. The columns are: MakerID (INT), MakerName (VARCHAR), MakerOwnerName (VARCHAR), YearOpened (INT), Website (VARCHAR), InstagramHandle (VARCHAR), LookingForOpp (CHAR), MakerLogo (VARCHAR), and UserID (INT). The data is as follows:

MakerID	MakerName	MakerOwnerName	YearOpened	Website	InstagramHandle	LookingForOpp	MakerLogo	UserID
1	Softset Ceramics	Mimi Olins	2013	https://www.softsetceramics.c...	@softsetceramics	no	https://static1.squarespace.co...	103
2	ANK Ceramics	Ariela Nomi Kuh	2014	https://www.ankceramics.com/	@a_n_k_ceramics	yes	NULL	104
3	Catquat Jewelry	Cat Quattrociocchi	2014	https://www.catquattrociocchi....	@_catquat	yes	https://images.squarespace-c...	110
4	Chloe May Brown	Chloe May Brown	2012	https://www.chloemaybrown.c...	@cmb123	no	NULL	111
5	The Cultivated Thread	Hilary Crowell	2020	https://www.thecultivatedthre...	@thecultivatedthread	yes	NULL	112
6	Emily Percival	Emily Percival	2006	https://www.epercival.com/	@epercivaljewelry	no	https://static.wixstatic.com/me...	113
7	Thicket Jewelry	Rebecca Perea-Kane	2013	https://shopthicket.com/	@thicket_jewelry	yes	https://shopthicket.com/cdn/s...	114

PART 5: INSTALLED DATABASE - SELECT

ProductCategory

```
1 SELECT * FROM ProductCategory;
```

Query Favorites Query History

ProductCategoryID	ProductCategoryName
1	Ceramics
2	Jewelry
3	Textiles

SellsThis

```
1 SELECT * FROM SellsThis;
```

Query Favorites Query History

BusinessID	ProductCategoryID
1	1
8	1
1	2
2	2
5	2
6	2
7	2
3	3
4	3
6	3
8	3

PART 5: INSTALLED DATABASE - SELECT

Product

```
1 | SELECT * FROM Product;
```

Query Favorites ▾ Query History ▾

ProductID INT	ProductName VARCHAR	ProductPhoto VARCHAR	MakerID INT	ProductCategoryID INT
1	Platter	https://images.squarespace-cdn.com/content/v1/57fec9e929687f2...	1	1
2	Lichen Mug	https://images.squarespace-cdn.com/content/v1/63bed4236c8d58...	2	1
3	Saucer Post	https://images.squarespace-cdn.com/content/v1/57fec9e929687f2...	3	2
4	Bowl No. 17	https://images.squarespace-cdn.com/content/v1/52e076aee4b0fba...	4	1
5	Bold Coast Hand Woven Towel	https://images.squarespace-cdn.com/content/v1/5eab0a156ccfea6...	5	3
6	Seagrass Table Runner	https://images.squarespace-cdn.com/content/v1/5eab0a156ccfea6...	5	3
7	Armor Earrings - Style C	https://static.wixstatic.com/media/99019a_11aa627be852447f9973...	6	2
8	Wild Rose Bramble Ring	https://shopthicket.com/cdn/shop/products/Thicket_wild_rose_bra...	7	2

PART 5: INSTALLED DATABASE - SELECT

Event

```
1 SELECT * FROM Event;
```

10

...

Query Favorites Query History

EventId	EventName	EventDate	EventTime	BusinessID
1	Holiday Cheer	2023-11-25	11:00:00	1
2	Spring Seconds	2024-03-09	10:00:00	8
3	Valentines Day Pop-up	2024-02-10	01:00:00	7

IsAPartOf

```
1 SELECT * FROM IsAPartOf;
```

9

...

Query Favorites Query History

MarkerID	EventId
1	1
2	1
2	2
7	3

PART 5: INSTALLED DATABASE - SELECT

Conversation

ConversationID INT	ContactSenderId INT
1	1
3	9
2	12

Participant

ParticipantID INT	ConversationID INT	ContactParticipantID INT
1	1	12
2	2	1
3	3	13

Messages

MessageID INT	MessageBody TEXT	MessageTimeStamp TIMESTAMP	ParticipantID INT
1	Hi Chloe, we love your product and we're reaching out to see if you'd like to be part o...	2023-11-18 10:30:18	1
2	Hi Hannah, I would like to join the pop-up on the 25th! Are there particular products y...	2023-11-18 02:15:00	2
3	Hi Hiliary, I am looking ahead to February and Valentines Day and would like to see if...	2024-01-05 02:22:00	3

PART 5: INSTALLED DATABASE - DESCRIBE

Business

```
1 DESCRIBE Business;
```

...

Query Favorites ▾ Query History ▾

Field	VARCHAR	Type	UNKNOWN	Null	VARCHAR	Key	VARCHAR	Default	UNKNOWN	Extra	VARCHAR
BusinessID		int(11)		NO		PRI		NULL			auto_increment
BusinessName		varchar(75)		NO				NULL			
BusinessOwnerName		varchar(75)		NO				NULL			
YearOpened		int(11)		NO				NULL			
Website		varchar(75)		NO				NULL			
InstagramHandle		varchar(50)		NO				NULL			
LookingForMaker		char(3)		NO				NULL			
UserID		int(11)		NO		MUL		NULL			

Maker

```
1 DESCRIBE Maker;
```

...

Query Favorites ▾ Query History ▾

Field	VARCHAR	Type	UNKNOWN	Null	VARCHAR	Key	VARCHAR	Default	UNKNOWN	Extra	VARCHAR
MakerID		int(11)		NO		PRI		NULL			auto_increment
MakerName		varchar(75)		NO				NULL			
MakerOwnerName		varchar(75)		NO				NULL			
YearOpened		int(11)		NO				NULL			
Website		varchar(75)		NO				NULL			
InstagramHandle		varchar(50)		NO				NULL			
LookingForOpp		char(3)		NO				NULL			
MakerLogo		varchar(1000)		YES				NULL			
UserID		int(11)		NO		MUL		NULL			

PART 5: INSTALLED DATABASE - DESCRIBE

UserContact

```
1 | DESCRIBE UserContact;
```

Field	VARCHAR	Type	UNKNOWN	Null	VARCHAR	Key	VARCHAR	Default	UNKNOWN	Extra	VARCHAR
ContactID		int(11)		NO	PRI		NULL				auto_increment
ContactFName		varchar(75)		NO			NULL				
ContactLName		varchar(75)		NO			NULL				
ContactTitle		varchar(50)		NO			NULL				
PhoneNumber		varchar(50)		NO			NULL				
Email		varchar(75)		NO			NULL				
Address		varchar(75)		NO			NULL				
City		varchar(75)		NO			NULL				
State		char(2)		NO			NULL				
ZipCode		varchar(25)		NO			NULL				
Country		varchar(50)		NO			NULL				

Product

```
1 | DESCRIBE Product;
```

Field	VARCHAR	Type	UNKNOWN	Null	VARCHAR	Key	VARCHAR	Default	UNKNOWN	Extra	VARCHAR
ProductID		int(11)		NO	PRI		NULL				auto_increment
ProductName		varchar(75)		NO			NULL				
ProductPhoto		varchar(1000)		NO			NULL				
MakerID		int(11)		NO	MUL		NULL				
ProductCategoryID		int(11)		NO	MUL		NULL				

PART 5: INSTALLED DATABASE - DESCRIBE

Conversation

```
1 DESCRIBE Conversation;
```

Query Favorites ▾ Query History ▾

Field	VARCHAR	Type	UNKNOWN	Null	VARCHAR	Key	VARCHAR	Default	UNKNOWN	Extra	VARCHAR
ConversationID	int(11)	NO	PRI	NULL							auto_increment
ContactSenderId	int(11)	NO	MUL	NULL							

Message

```
1 DESCRIBE Message;
```

Query Favorites ▾ Query History ▾

Field	VARCHAR	Type	UNKNOWN	Null	VARCHAR	Key	VARCHAR	Default	UNKNOWN	Extra	VARCHAR
MessageID	int(11)	NO	PRI	NULL							auto_increment
MessageBody	text	YES									
MessageTimeStamp	timestamp	NO									
ParticipantID	int(11)	NO	MUL	NULL							

Participant

```
1 DESCRIBE Participant;
```

Query Favorites ▾ Query History ▾

Field	VARCHAR	Type	UNKNOWN	Null	VARCHAR	Key	VARCHAR	Default	UNKNOWN	Extra	VARCHAR
ParticipantID	int(11)	NO	PRI	NULL							auto_increment
ConversationID	int(11)	NO	MUL	NULL							
ContactParticipantID	int(11)	NO	MUL	NULL							

PART 6: REVISIONS

No revisions were noted in the feedback for Part 1. I did source and add more data from local businesses and makers. I also considered reorganizing the Business, Maker, User and UserContact tables but decided to keep the original format.

PART 7: QUESTIONS

1. What messages have been sent in 2024? Make sure to include the date and time and the message text.
2. What are the pop-up Events that are currently scheduled? Make sure to have the event's name, the date/time of the event and the name of the business that is hosting the event.
3. Based off of Question 2, give a list of the Makers that are a part of each Event with the EventID and the EventName.
4. Give a list of each business and their Instagram handle to further research their audience reach. Include the UserID and the UserType.
5. What is the current total number of products for each product category? Make sure to list the top product category first. This will help determine which categories and products to expand on.
6. Who are the Makers currently interested in participating in a pop-up? Make sure to include the maker name and the maker's Instagram handle.
7. Provide the current list of contacts for businesses only with the business's name, the contact name and title, the business website, state and zip code, and how many years that business has been open, starting with the oldest.
8. Create a view for makers and their products to reference as makers are added. Must have the maker's name, the makerID, and their products, including the product name, the product ID and the product photo.

PART 8: OUTPUT REPORT - QUES 1

Question:

What messages have been sent in 2024?
Make sure to include the date and time
and the message text.

SQL Query:

```
SELECT
DATE(MessageTimeStamp) AS Date_Sent,
TIME(MessageTimeStamp) AS Time_Sent,
MessageBody
FROM Message
WHERE MessageTimeStamp BETWEEN
'2024-01-01' AND '2024-12-31'
ORDER BY MessageTimeStamp;
```

Output:

Date_Sent	DATE	Time_Sent	TIME	MessageBody	TEXT
2024-01-05		02:22:00		Hi Hiliary,	I am looking ahead to February and Valentines Day and w...
2024-01-18		11:00:00		Hi Megan,	I see you are looking for artists/makers. I have a couple o...



Expanded Messages

Hi Hiliary, I am looking ahead to February and Valentines Day and would like to see if you would want to sell your items at our in person pop-up event on February 10th. Do you have hand towels that fit with the theme? Thank you, Lauren

Hi Megan, I see you are looking for artists/makers. I have a couple of style of coffee mugs that I think would work great in your shop, and I am also opening up custom orders this spring if you would like to carry custom Bard mugs. Please let me know if you have any questions! Best, Meg

PART 8: OUTPUT REPORT - QUES 2

Question:

What are the pop-up Events that are currently scheduled? Make sure to have the event's name, the date/time of the event and the name of the business that is hosting the event.

SQL Query:

```
SELECT b.BusinessName AS "Host",
e.EventName, e.EventDate,
e.EventTime
FROM Event e
JOIN Business b
ON b.BusinessID = e.BusinessID
GROUP BY b.BusinessID
ORDER BY e.EventDate, e.EventTime;
```

Output:

Host VARCHAR	EventName VARCHAR	EventDate DATE	EventTime TIME
The Post Supply	Holiday Cheer	2023-11-25	11:00:00
Bard Coffee	Morning Coffee Market	2024-01-20	09:00:00
Fitz & Bennet Home	Valentines Day Pop-up	2024-02-10	01:00:00
Smalls	Spring Seconds	2024-03-09	10:00:00

PART 8: OUTPUT REPORT - QUES 3

Question:

Based off of Question 2, give a list of the Makers that are a part of each Event with the EventID and the EventName.

SQL Query:

```
SELECT m.MakerName,iapo.EventID,  
e.EventName  
FROM IsAPartOf iapo  
JOIN Maker m  
ON iapo.MakerID = m.MakerID  
JOIN Event e  
ON iapo.EventID = e.EventID  
ORDER BY EventID;
```

Output:

MakerName VARCHAR	EventID INT	EventName VARCHAR
Softset Ceramics	1	Holiday Cheer
ANK Ceramics	1	Holiday Cheer
ANK Ceramics	2	Spring Seconds
Thicket Jewelry	3	Valentines Day Pop-up
ANK Ceramics	4	Morning Coffee Market
C&M Ceramics	4	Morning Coffee Market
Object Aimee	4	Morning Coffee Market

PART 8: OUTPUT REPORT - QUES 4

Question:

Give a list of each business and their Instagram handle to further research their audience reach. Include the UserID and the UserType.

SQL Query:

```
SELECT u.UserID, u.UserType,  
b.BusinessName, b.InstagramHandle  
FROM User u  
JOIN Business b  
ON u.UserID = b.UserID  
GROUP BY u.UserID  
ORDER BY b.BusinessName;
```

Output:

UserID INT	UserType VARCHAR	BusinessName VARCHAR	InstagramHandle VARCHAR
121	business	Bard Coffee	@bardcoffee
105	business	Blanche and Mimi	@blancheandmimi
106	business	Corey & Co	@coreyandco
108	business	Fitz & Bennet Home	@fitzbennetthome
101	business	Gus & Ruby Letterpress	@gusandrubyletterpress
117	business	Haberdashery	@haberdasheryportland
107	business	Handiwork Studio + Market	@handiworkportland
120	business	Heritage Seaweed	@heritage.seaweed
119	business	Judith	@judith_maine
116	business	Maine Surfers Union	@mainesurfersunion

PART 8: OUTPUT REPORT - QUES 5

Question:

What is the current total number of products for each product category? Make sure to list the top product category first. This will help determine which categories and products to expand on.

SQL Query:

```
SELECT pc.ProductCategoryName,  
COUNT(p.ProductCategoryID) AS "Total Products"  
FROM ProductCategory pc  
JOIN Product p  
ON pc.ProductCategoryID = p.ProductCategoryID  
GROUP BY pc.ProductCategoryID  
ORDER BY COUNT(p.ProductCategoryID) DESC;
```

Output:

ProductCategoryName	VARCHAR	Total Products	BIGINT
Ceramics		6	
Jewelry		4	
Textiles		2	
Prints		1	

PART 8: OUTPUT REPORT - QUES 6

Question:

Who are the Makers that are currently interested in participating in a pop-up?
Make sure to include the maker name and the maker's Instagram handle.

SQL Query:

```
SELECT MakerName, InstagramHandle,  
LookingForOpp  
FROM Maker  
WHERE LookingForOpp = "yes"  
ORDER BY MakerName;
```

Output:

MakerName VARCHAR	InstagramHandle VARCHAR	LookingForOpp CHAR
ANK Ceramics	@a_n_k_ceramics	yes
Bad Fox Co.	@badfoxco	yes
C&M Ceramics	@cm_ceramics	yes
Catquat Jewelry	@_catquat	yes
Inciardi Prints	@inciardi	yes
Object Aimee	@objectaimee	yes
The Cultivated Thread	@thecultivatedthread	yes
Thicket Jewelry	@thicket_jewelry	yes
Wild Sol Jewelry	@wildsoljewelry	yes

PART 8: OUTPUT REPORT - QUES 7

Question:

Provide the current list of contacts for businesses only with the business's name, the contact name and title, the business website, state it's in with zip code, and how many years that business has been open starting with the oldest.

SQL Query:

```
SELECT YEAR(CURRENT_DATE) - (b.YearOpened) AS Years_Opened,  
b.BusinessName, Concat(uc.ContactFName, ' ', uc.ContactLName)  
AS "Contact Name", uc.ContactTitle AS Title, uc.PhoneNumber AS  
Phone, uc.State, uc.ZipCode  
FROM Business b JOIN User u  
ON b.UserID = u.UserID  
JOIN UserContact uc ON u.ContactID = uc.ContactID  
GROUP BY b.UserID  
ORDER BY Years_Opened DESC;
```

Output:

Years_Opened	BIGINT	BusinessName	VARCHAR	Contact Name	VARCHAR	Title	VARCHAR	Phone	VARCHAR	State	CHAR	ZipCode	VARCHAR
16		Blanche and Mimi		Hilary Sinauer		Owner		207-774-3900		ME		04101	
15		Pinecone + Chickadee		Jess Reeves		Buyer		207-772-9280		ME		04101	
15		Portland Dry Goods		Michael Force		Co-Owner		207-747-8152		ME		04101	
14		Corey & Co		Barbara Corey		Owner		207-761-4200		ME		04101	
14		Gus & Ruby Letterpress		Stef Jenkins		Manager		207-835-6101		ME		04101	
14		Bard Coffee		Megan Glasics		Manager		207-899-4788		ME		04101	
11		Portland Flea-for-All		Erin Kiley		Co-Owner		207-370-7570		ME		04101	
10		Maine Surfers Union		Eli Smith		Manager		207-771-7873		ME		04101	
9		Judith		Brooke Beaney		Manager		207-747-4778		ME		04101	
8		Haberdashery		Jenny Davis		Owner		207-747-4153		ME		04101	

PART 8: OUTPUT REPORT - QUES 8

Question:

Create a view for makers and their products to reference as makers are added. Must have the maker's name, the makerID, and their products, including the product name, the product category ID, and the product photo.

View/Output:

MakerID INT	MakerName VARCHAR	ProductCategoryID INT	ProductName VARCHAR	ProductPhoto VARCHAR
1	Softset Ceramics	1	Platter	https://images.squarespace-cdn.com/content/v1/57fec9e929687f2...
2	ANK Ceramics	1	Lichen Mug	https://images.squarespace-cdn.com/content/v1/63bed4236c8d58...
3	Catquat Jewelry	2	Saucer Post	https://images.squarespace-cdn.com/content/v1/57fec9e929687f2...
4	Chloe May Brown	1	Bowl No. 17	https://images.squarespace-cdn.com/content/v1/52e076aee4b0fba...
5	The Cultivated Thread	3	Bold Coast Hand Woven Towel	https://images.squarespace-cdn.com/content/v1/5eab0a156ccfea6...
5	The Cultivated Thread	3	Seagrass Table Runner	https://images.squarespace-cdn.com/content/v1/5eab0a156ccfea6...
6	Emily Percival	2	Armor Earrings - Style C	https://static.wixstatic.com/media/99019a_11aa627be852447f9973...
7	Thicket Jewelry	2	Wild Rose Bramble Ring	https://shopthicket.com/cdn/shop/products/Thicket_wild_rose_bra...
8	Inciardi Prints	4	Postcard	https://inciardiprints.com/cdn/shop/products/B13AC22E-4743-47F...
9	C&M Ceramics	1	Primary Camp Mug	https://images.squarespace-cdn.com/content/v1/5730cd4e1d07c0...

SQL Query:

```
CREATE VIEW MakerAndProducts AS SELECT m.MakerID,  
m.MakerName, p.ProductCategoryID, p.ProductName,  
p.ProductPhoto  
FROM Maker m  
JOIN Product p  
ON m.MakerID = p.MakerID  
GROUP BY p.ProductID  
ORDER BY m.MakerID;
```