**Yakuzaboss.com**

**Group 1**

**Scott Kinnie, Dominic Krajicek, Faisal Farooq**

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**Project Overview**

**Executive summary**

We did our Database Design Project on Yakuzaboss.com a newer company that sells anime inspired clothing to anime fans. They print and distribute their products inhouse. The company also pays fan artists to use there designs on their cloths. The designers also receive a commission for each of their design sold. The company also wants to improve their coupon codes by giving them out in emails and by deals with anime accounts on Instagram.

Yakuzaboss needs a database to keep track of what designer made what design that goes on what clothing item. They would also like to keep better track of inventory and sales. Keeping track of customer data is also very important to them. They also want to have a system in place so that when they run out of a certain design, they will be able to tell withing the database and know when to order more of that design. This database will also allow them to utilize an email referral system in where a potential customer can enter their email to get added to an email list, so when new clothing items are dropped, they will get an email notifying them. In entering their email, the customer will also receive a onetime discount code to use on her purchase. The company also has a social media presence in which they will contact other anime Instagram accounts to share their website and to give out a limited time coupon code for there followers to use if they wish. They wanted us to make them a database for them for all of these reasons and for further expansion of there company and brand.

**Project Contributors**

Business Description- Faisal Farooq, Dominic Krajicek

Conceptual Data Model- Scott Kinnie, Dominic Krajicek

Database Design- Scott Kinnie, Dominic Krajicek, Faisal Farooq

Database Implementation- Faisal Farooq, Scott Kinnie

Presentation- Dominic Krajicek, Faisal Farooq, Scott Kinnie

**Business Description**

1. **Name of business**

Yakuzaboss.com

**2. Purpose of business**

To sell anime-inspired apparel from different artists to amine fans as gifts to others or themselves. Also, to give artists the chance to get their artwork on clothing and to profit from their work.

3. **Summary of business activities**

The company sells anime clothing such as men's and women's t-shirts and hoodies as well as tank tops and children’s sizes. They print their clothes in house and ship them out to domestic or international customers. They also import clothing or buy them from local wholesalers to print their designs on. The company also reaches out to artists for permission to use their designs.

**4. Problems, opportunities, and objectives (current business problems, new business opportunities, business objectives)**

The current problem for this company is they don't have a database to manage many aspects of the company.  A database will create a centralized hub for all business information related to the company to be stored. These aspects include managing the inventory of products and creating alerts when inventory is low. The company wants to track transactions, expenses, and assets like clothing. The company also wants to be able to see products that are not selling enough to possibly discontinue them. The company wants to eventually go into more clothing types such as crew necks, long sleeve shirts, and sweatpants. Another objective the company wants to do is to improve its email services such as a newsletter that occasionally gives out discount codes and tells the receiver when new products drop and shop updates

**5. Business case (i.e., reasons or justifications for the new database system)**

They need a database to keep better track of sales and to see what products sell. They also want to keep track of the designers that whom they get permission. They can use data from the database for targeted advertisements to consumers.

**6. Information and data requirement (what data the business needs to store in its database, what information the businesses can generate from the data)**

They need to store customer names and addresses as well as their order numbers, the date of the order and time, the clothing type, what anime collection it is a part of, and the size and color will all be included in the database. The business can see what products sell the most and what sizes sell the most. Knowing the sizes is useful so the company can order more of that size. They also can see what products sell the most and then the company can print more of that product. The database will also see when they are low on stock.

**7. List of entities (tables) and columns in tables. Underline the primary key.**

**PRODUCT(Product\_id, NameOfProd, Price,Quantity\_onhand\_needed,ReorderQuantity, Clothing\_type,  SizeOfProd,  Color, Anime\_ID, Anime\_name)**

**CUSTOMER(Customer\_id, First\_name, Last\_name,Phone,Email, Street\_adress, Zip\_code, City, State, Country)**

**ORDER(Order\_id, Customer\_id, Total , Tax , SubTotal, Order\_status, ,Order\_Time, Discount)**

**ORDER\_LINE\_ITEM(Order\_id, Product\_id , Quantity, Price, Extended\_Price)**

**PAYMENT(Customer\_id, Payment\_type, Payment\_Amount)**

**DESIGNER(Designer\_ID, Designer\_username)**

**COUPON(Coupon\_ID,Order\_Id, Expiration\_date, Valid, Invalid, Percentage)**

**Diagram

Description automatically generatedConceptual Data Model**

**Relationship Sentences (With Explanations)**

Customer to order relations

* A customer can have zero to many orders.
* An order requires at least one customer and max can have 1.

Product to designer

* A product can have no designer or many designers.
* A designer must have 1 product, and a designer can have many products.

Product to order line item

* A product must belong to no orders and can belong to many orders.
* An order line item product is optional and can have many products.

Order to coupon

* Coupon can go for optional to many different orders
* An order does not require a coupon. The maximum coupons an order can take is 1

Customer to payment

* Payment minimum is required. Payment maximum is 1
* Customers can have optional to many payment types.

Order line item to order

* An order can have one or many line items
* Order line items can only have 1 order.

Payment to order

* An order can only have one and only one payment.
* A payment can belong to many orders or none.

**Database Design**

Diagram

Description automatically generated with medium confidence

**Functional Dependencies**

* The functional dependencies for customer\_id is First\_name, Last\_name, Phone, Email, Street\_adress, Zipcode, City, State, Country
* The functional dependencies for order\_id   is the order\_status, order\_time Discount  and customer\_id who placed the order.
* The functional dependencies for Product\_id is the name of the product, price, quantity\_onhand\_needed, reorderQuantity, clothing type, size color, anime\_name, and anime\_id.
* The functional dependencies for the designer\_id is the designer's name
* The functional dependencies for the order\_id and product\_id is  the quantity ordered, price and extended\_price
* The functional dependencies for the coupon\_id is the experiation\_date, valid or invalid, percentage.
* The functional dependencies for Customer\_id and payment\_amount is payment type.

**SQL Create Table Statements**

\*only for Oracle SQL Developer

**TABLE 1**

CREATE TABLE CUSTOMER (

    Customer\_Id        Int              NOT NULL,

    FirstName         Char(25)     NOT NULL,

    LastName         Char(25)     NOT NULL,

    Phone       Int              NOT NULL,

    Email     Char(30)     NULL,

    Street\_adress        Char(25)     NOT NULL,

    Zipcode         Number(25)     NOT NULL,

    City         Char(25)     NOT NULL,

    State         Char(25)     NOT NULL,

    Country         Char(25)     NOT NULL,

    CONSTRAINT Customer\_IdPK         PRIMARY KEY(Customer\_id));

**TABLE 2**

CREATE TABLE ORDERS (

  Order\_Id     Int              NOT NULL,

 Customer\_id        Int              NOT NULL,

Total    int NOT NULL,

Tax         int NOT NULL ,

SubTotal       int NOT NULL ,

   Order\_status       Char(25)     NOT NULL,

   Order\_time         Char(8)     NOT NULL,

    Discount       Int              NOT NULL,

CONSTRAINT Order\_IdPK         PRIMARY KEY(Order\_Id),

CONSTRAINT CustomersFK         FOREIGN KEY(Customer\_Id)

REFERENCES CUSTOMER(Customer\_Id)

ON DELETE CASCADE

 );

**Table 3**

CREATE TABLE PAYMENT (

 Customer\_Id        Int              NOT NULL,

   Payment\_type       Char(25)     NOT NULL,

  Payment\_Amount        int     NOT NULL,

CONSTRAINT PaymentPK         PRIMARY KEY(Customer\_Id,Payment\_type),

CONSTRAINT Customer\_IdFK FOREIGN KEY(Customer\_Id)

REFERENCES CUSTOMER(Customer\_Id)

ON DELETE CASCADE

);

**Table 4**

 CREATE TABLE COUPON (

    Coupon\_Id        Char(5)             NOT NULL,

    Order\_Id int NOT NULL,

    Expiration\_date         char(10)     NOT NULL,

    Valid         Char(3)     NOT NULL,

   Invalid       char(3)             NOT NULL,

   Percentage     int     NULL,

    CONSTRAINT Coupon\_IdPK         PRIMARY KEY(Coupon\_Id),

     CONSTRAINT Order\_IdFK         FOREIGN KEY(Order\_Id)

     REFERENCES ORDERS(Order\_Id)

    );

**Table 5**

CREATE TABLE DESIGNER (

    Designer\_Id                      Char(4)             NOT NULL,

    Designer\_username     Char(25)     NOT NULL,

    CONSTRAINT Designer\_IdPK         PRIMARY KEY(Designer\_Id));

**Table 6**

CREATE TABLE PRODUCT (

    Product\_Id        Int              NOT NULL,

 NameOfProd         Char(30)     NOT NULL,

Price        Int              NOT NULL,

    Quantity\_onhand\_needed         INT     NOT NULL,

ReOrderQuantity         INT     NOT NULL,

Clothing\_Type            Char(25)         NOT NULL,

SizeOfProd         Char(28)     NOT NULL,

Color     Char(30)            NOT NULL,

    Anime\_Id     NUMBER(10)     NOT NULL,

 Anime\_name     Char(30)   NOT  NULL,

 CONSTRAINT Product\_IdPK         PRIMARY KEY(Product\_Id),

);

**Table 7**

CREATE TABLE ORDER\_LINE\_ITEM (

    Order\_Id        Int              NOT NULL,

Product\_Id        Int              NOT NULL,

Quantity             int             NOT NULL,

Price        Int              NOT NULL,

    Extended\_Price       Int              NOT NULL,

CONSTRAINT Order\_Line\_ItemPK PRIMARY KEY(Order\_Id,Product\_Id),

CONSTRAINT ORDERSFK FOREIGN KEY(Order\_Id)

REFERENCES ORDERS(Order\_Id)

ON DELETE CASCADE,

CONSTRAINT Product\_IdFK FOREIGN KEY(Product\_Id)

REFERENCES PRODUCT(Product\_Id)

ON DELETE CASCADE

);

**TABLE 8**

CREATE TABLE PRODUCT\_DESIGNER\_INT (

    Product\_Id        Int              NOT NULL,

    Designer\_Id                      Char(4)             NOT NULL,

CONSTRAINT Product\_Designer\_IntPK PRIMARY KEY (Product\_Id,Designer\_Id),

 CONSTRAINT Product\_Id\_DesFK       FOREIGN KEY(Product\_Id)

REFERENCES PRODUCT(Product\_Id)

ON DELETE CASCADE,

CONSTRAINT Designer\_Id\_DesFK         FOREIGN KEY(Designer\_Id)

REFERENCES DESIGNER(Designer\_Id)

ON DELETE CASCADE

);

**SQL Insert Statements**

**CUSTOMER TABLE**

INSERT INTO CUSTOMER VALUES (

1, 'Din', 'Djarin', '6095555555', 'Thisistheway@gmail.com',

'2nd This Str.', '66777', 'Fries', 'Virginia', 'USA');

INSERT INTO CUSTOMER VALUES (

2,'Armin', 'Arlet', '6095555557', 'AreltArmin@gmail.com',

'27th That Str.', '66777', 'Dinosaur', 'Colorado’, ‘USA');

INSERT INTO CUSTOMER VALUES (

3, 'Jon', 'Snow', '6095555558','winteriscoming@gmail.com',

'77th Bad Route Rd.', '59102', 'Whynot', 'North Carolina', 'USA');

INSERT INTO CUSTOMER VALUES (

4, 'Ken', 'Kaneki', '6095555559','ghoulsrppl2@gmail.com',

'96 Chicken Dinner Rd.', '83709', 'Hurt', 'Virginia', 'USA');

INSERT INTO CUSTOMER VALUES(

5, 'Mike', 'Hawk', '6095555559','Hawksmom@yahoo.com',

'88 Why Worry Ln.', '85142', 'Okay', 'Oklahoma', 'USA');

INSERT INTO CUSTOMER VALUES (

6, 'Ben', 'Dover', '6095555560','Dovermart@gmail.com',

'49 Hammertime Rd.', '30003', 'Atomic City', 'Idaho', 'USA');

INSERT INTO CUSTOMER VALUES (

7, 'Elon', 'Musk', '6095555561','buytwitter@gmail.com',

 '4 Meditation Ln.','03842', 'Uncertain', 'Texas', 'USA');

INSERT INTO CUSTOMER VALUES (

8, 'Light', 'Yagami', '6095555562','deathofnote@outlook.com',

'12 Zzyzx Rd.', '90224', 'Climax', 'Michigan', 'USA');

INSERT INTO CUSTOMER VALUES (

9, 'Bruce', 'Wayne', '6095555563','namtab@gmail.com',

'21 Candy Castle Ln.', '46012', 'Winnebago', 'Minnesota', 'USA');

INSERT INTO CUSTOMER VALUES (

10, 'Itachi', 'Uchiha', '6095555564','savingclan@yahoo.com',

'785 Uptha Rd.', '04401', 'Speed', 'North Carolina', 'USA');

INSERT INTO CUSTOMER VALUES (

11, 'Navraj', 'Singh Goraya', '6095555565','perefecttiimingp2@gmail.com',

'789 Uptha Rd.', '04401', 'China', 'Texas', 'USA');

INSERT INTO CUSTOMER VALUES (

12, 'Gon', 'Freecss', '6095555566','lookingforpop@outlook.com',

'269 Liquid Laughter Ln.', '21218', 'Blue Grass', 'Iowa', 'USA');

INSERT INTO CUSTOMER VALUES (

13, 'Edward', 'Elric', '6095555567','imakestuff@yahoo.com',

 '9 Memory Ln.', '39501', 'Pink', 'Oklahoma', 'USA');

**Order Table**

INSERT INTO ORDERS VALUES  (

'6351', 3, '19.99', '1.27', '19.14', 'Delivered', '4:00 AM', 10);

INSERT INTO ORDERS VALUES (

'6352', 7, '47.98', '3.05', '51.03', 'In Progress', '6:39PM', 0);

INSERT INTO ORDERS  VALUES (

'6353', 12, '99.96', '6.35', '95.68', 'In Progress', '12:30AM', 10);

INSERT INTO ORDERS VALUES (

'6354', 8, '69.97', '4.44', '74.41', 'Shipped', '1:09PM', 0);

INSERT INTO ORDERS VALUES (

'6355', 2, '19.99', '1.27', '21.26', 'Refunded', '5:00 AM', 0);

INSERT INTO ORDERS VALUES (

'6356', 5, '19.99', '1.27', '19.14', 'In Progress', '4:20 PM', 10);

INSERT INTO ORDERS VALUES (

'6357', 9, '29.99', '1.90', '31.89', 'Shipped', '7:47 PM', 0);

INSERT INTO ORDERS VALUES (

'6358', 10, '49.98', '3.17', '47.49', 'Shipped', '11:11 AM', 5);

**ORDER\_LINE\_ITEM Table**

INSERT INTO ORDER\_LINE\_ITEM VALUES  (

'6351', 20, 1, '19.99', '19.99');

INSERT INTO ORDER\_LINE\_ITEM VALUES (

'6352', 19, 2, '47.98', '95.96');

INSERT INTO ORDER\_LINE\_ITEM VALUES (

'6353', 11, 4, '99.96' , '399.84');

INSERT INTO ORDER\_LINE\_ITEM VALUES (

'6354', 3, 3, '69.97', '209.91');

INSERT INTO ORDER\_LINE\_ITEM VALUES (

'6355', 7, 1, '19.99', '19.99');

INSERT INTO ORDER\_LINE\_ITEM VALUES (

'6356', 15, 1, '19.99', '19.99');

INSERT INTO ORDER\_LINE\_ITEM VALUES (

'6357', 6, 2, '29.99', '59.98');

INSERT INTO ORDER\_LINE\_ITEM VALUES (

'6358', 7, 2, '49.98', '99.96');

**PRODUCT Table**

INSERT INTO PRODUCT VALUES (

1, 'Copy Ninja','19.99', 5, '50', 'Shirt',

'XS S M L XL 2XL 3XL 4XL', 'Black White Sangria Aquatic', 1, 'Naruto');

INSERT INTO PRODUCT VALUES (

2, 'Neon Sage','19.99', 5, '50', 'Shirt',

 'XS S M L XL 2XL 3XL 4XL','Black White Sangria Aquatic', 1, 'Naruto');

INSERT INTO PRODUCT VALUES (

3, 'Silhouette Style Zenitsu','19.99', 5, '40', 'Shirt',

 'XS S M L XL 2XL 3XL 4XL', 'Black White Sangria Aquatic', 3, 'Demon Slayer');

INSERT INTO PRODUCT VALUES (

4, 'Lighting Blade Ninja','19.99', 5, '50', 'Shirt',

 'XS S M L XL 2XL 3XL 4XL', 'Black White Sangria Aquatic', 1, 'Naruto');

INSERT INTO PRODUCT VALUES (

5, 'Red Itachi Moonlight' ,'19.99', 5, '30', 'Shirt',

'XS S M L XL 2XL 3XL 4XL', 'Black White Sangria Aquatic', 1, 'Naruto');

INSERT INTO PRODUCT VALUES (

6, 'Silhouette Style Shinigami', '19.99',5, '30', 'Shirt',

 'XS S M L XL 2XL 3XL 4XL', 'Black White Sangria Aquatic', 7, 'Other');

INSERT INTO PRODUCT VALUES (

7, 'Hunter X Hunter Killua','19.99', 5, '30', 'Tank Top',

 'XS S M L XL 2XL 3XL 4XL', 'Black White Sangria Aquatic', 7, 'Other');

INSERT INTO PRODUCT VALUES (

8, 'Pink Saiyan','19.99', 5, '60', 'Tank Top',

 'XS S M L XL 2XL 3XL 4XL', 'Black White Sangria Aquatic', 4, 'Dragon Ball');

INSERT INTO PRODUCT VALUES (

9, 'Half Ghoul Kaneki', '19.99',5, '20', 'Tank Top',

'XS S M L XL 2XL 3XL 4XL', 'Black White Sangria Aquatic', 7, 'Other');

INSERT INTO PRODUCT VALUES (

10, 'The Pirate King', '19.99',5, '60', 'Shirt',

 'XS S M L XL 2XL 3XL 4XL', 'Black White Sangria Aquatic', 2, 'One Piece');

INSERT INTO PRODUCT VALUES (

11, 'Mickey Tokyo Revengers','29.99', 5, '40', 'Hoodie',

 'XS S M L XL 2XL 3XL 4XLL', 'Black White Sangria Aquatic', 7, 'Other');

INSERT INTO PRODUCT VALUES (

12, 'The Fourth', '29.99', 5, '20', 'Hoodie',

 'XS S M L XL 2XL 3XL 4XL', 'Black White Sangria Aquatic', 1, 'Naruto');

INSERT INTO PRODUCT VALUES (

13, 'Deku vs Bakugo','29.99', 5, '20', 'Hoodie',

'XS S M L XL 2XL 3XL 4XL', 'Black White Sangria Aquatic', 7, 'Other');

INSERT INTO PRODUCT VALUES (

14, 'Attack Titan','29.99', 5, '60', 'Hoodie', 'XS S M L XL 2XL 3XL 4XL', 'Black White Sangria Aquatic', 6, 'Attack on Titan');

INSERT INTO PRODUCT VALUES (

15, 'Green Broly','29.99', 5, '50', 'Hoodie',

 'XS S M L XL 2XL 3XL 4XL', 'Black White Sangria Aquatic', 4, 'Dragon Ball');

INSERT INTO PRODUCT VALUES (

16, 'Block Kakashi','29.99', 5, '20', 'Hoodie',

 'XS S M L XL 2XL 3XL 4XL', 'Black White Sangria Aquatic', 1, 'Naruto');

INSERT INTO PRODUCT VALUES (

17, 'Moonlight Shinigami','29.99', 5, '20', 'Hoodie',

 'XS S M L XL 2XL 3XL 4XL', 'Black White Sangria Aquatic', 7, 'Other');

INSERT INTO PRODUCT VALUES (

18, 'Anti Mage','29.99', 5, '15', 'Hoodie',

 'XS S M L XL 2XL 3XL 4XL', 'Black White Sangria Aquatic', 7, 'Other');

INSERT INTO PRODUCT VALUES (

19, 'Rainbow Jotaro', '29.99',5, '20', 'Hoodie',

 'XS S M L XL 2XL 3XL 4XL', 'Black White Sangria Aquatic', 7, 'Other');

INSERT INTO PRODUCT VALUES (

20, 'Light Vs L','29.99', 5, '20', 'Hoodie',

 'XS S M L XL 2XL 3XL 4XL', 'Black White Sangria Aquatic', 7, 'Other');

Payment Table

INSERT INTO PAYMENT VALUES (

1, 'Paypal', 0);

INSERT INTO PAYMENT VALUES (

2, 'Paypal', '21.26');

INSERT INTO PAYMENT VALUES (

3, 'Credit Card', '19.14');

INSERT INTO PAYMENT VALUES (

4, 'Credit Card',0);

INSERT INTO PAYMENT VALUES (

5, 'Credit Card', '51.03');

INSERT INTO PAYMENT VALUES (

6, 'Credit Card', 0);

INSERT INTO PAYMENT VALUES (

7, 'Paypal', '51.03');

INSERT INTO PAYMENT VALUES (

8, 'Paypal', '74.41');

INSERT INTO PAYMENT VALUES (

9, 'Paypal', '31.89');

INSERT INTO PAYMENT VALUES (

10, 'Credit Card', '47.49');

INSERT INTO PAYMENT VALUES (

11, 'Paypal', 0);

INSERT INTO PAYMENT VALUES (

12, 'Paypal', '95.68');

INSERT INTO PAYMENT VALUES (

13, 'Credit Card', 0);

**Coupon Table**

INSERT INTO COUPON VALUES (

'eml1', '6351', '4-30-2022' ,'Yes', 'no', '10');

INSERT INTO COUPON VALUES (

'none1', '6352' ,'none', 'no', 'Yes', 0);

INSERT INTO COUPON VALUES (

'eml2', '6353', '4-18-2022', 'Yes', 'no', '10');

INSERT INTO COUPON VALUES (

'none2', '6354', 'none', 'no', 'Yes', 0);

INSERT INTO COUPON VALUES (

'none3', '6355', 'none', 'no', 'Yes', 0);

INSERT INTO COUPON VALUES (

'eml4', '6356', '5-1-2022', 'Yes', 'no', '10');

INSERT INTO COUPON VALUES (

'none4', '6357', 'none', 'no', 'Yes', 0);

INSERT INTO COUPON VALUES (

'Aff1', '6358', 'none', 'Yes', 'No', 5);

**Designer Table**

INSERT INTO DESIGNER VALUES (

'ART1', 'Sakami\_Chan');

INSERT INTO DESIGNER VALUES (

'ART2', 'zumidraws');

INSERT INTO DESIGNER VALUES (

'ART3', 'lxis369');

**Product\_designer\_INT**

INSERT INTO Product\_designer\_INT VALUES (

1, 'ART3');

INSERT INTO Product\_designer\_INT VALUES (

2, 'ART3');

INSERT INTO Product\_designer\_INT VALUES (

3, 'ART1');

INSERT INTO Product\_designer\_INT VALUES (

4, 'ART1');

INSERT INTO Product\_designer\_INT VALUES (

5, 'ART3');

INSERT INTO Product\_designer\_INT VALUES (

6,'ART3');

INSERT INTO Product\_designer\_INT VALUES (

7, 'ART3');

INSERT INTO Product\_designer\_INT VALUES (

8, 'ART3');

INSERT INTO Product\_designer\_INT VALUES (

9, 'ART1');

INSERT INTO Product\_designer\_INT VALUES (

10, 'ART1');

INSERT INTO Product\_designer\_INT VALUES (

11, 'ART3');

INSERT INTO Product\_designer\_INT VALUES (

12, 'ART2');

INSERT INTO Product\_designer\_INT VALUES (

13, 'ART2');

INSERT INTO Product\_designer\_INT VALUES (

14, 'ART1');

INSERT INTO Product\_designer\_INT VALUES (

15, 'ART1');

INSERT INTO Product\_designer\_INT VALUES (

16, 'ART3');

INSERT INTO Product\_designer\_INT VALUES (

17, 'ART3');

INSERT INTO Product\_designer\_INT VALUES (

18, 'ART2');

INSERT INTO Product\_designer\_INT VALUES (

19, 'ART2');

INSERT INTO Product\_designer\_INT VALUES (

20, 'ART2');

**SQL Developer ER Diagram Screenshot**

Diagram

Description automatically generated