CS586 Introduction to Databases Fall 2021 Quarter

Graduate Project Database Implementation
ER Diagram and Relational Schema - Monday, Nov 29th, 11:59pm

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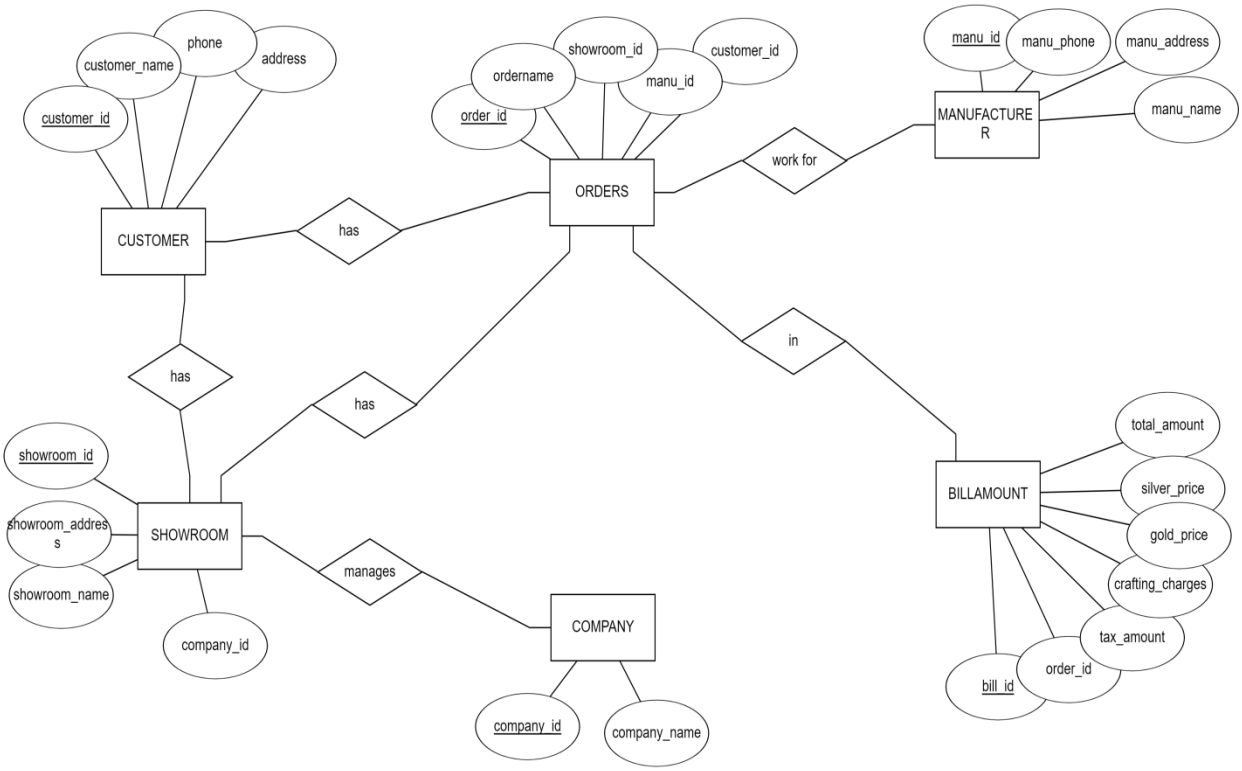
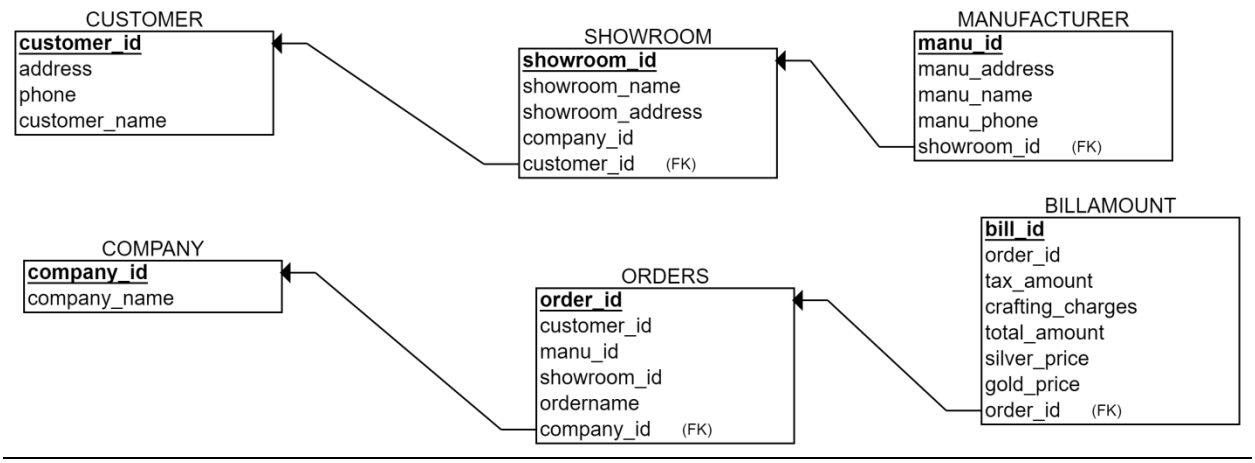
ER DIAGRAM.



SCHEMA DIAGRAM:



TABLES & INFORMATION ABOUT ALL THE KEYS INCLUDING PRIMARU KEYS AND COMPOSITE KEYS.

Customer it consists of four attributes.
(Customer_id,Customer_name,Phone,Address)

Customer_id is the foreign key to Orders table.

ORDERS it has five attributes.
(Order_id,Order_name,Showroom_id,Manu_id,Customer_id)

MANUFACTURE it has four attributes.
(Manu_id,Manu_phone,Manu_address,Manu_name)

SHOWROOM it has four attributes
(Showroom_id,Showroom_address,Showroom_name,Company_id)

Showroom_id is the foreign key to Orders table.

BILLAMOUNT it has seven attributes
(Bill_id,Order_id,Tax_amount,Crafting_charges,Gold_price,Silver_price,Total_amount)

Bill_id is the foreign key to Order table.

COMPANY it has two attributes
(Company_id,Company_name)

Company_id is the foreign key to Showroom table.

INSTANCE's OF CREATION OF TABLES.

```
CREATE TABLE customer (
   customer_id int NOT NULL,
   customer_name varchar(255) NOT NULL,
   address varchar(255),
   phone CHAR(10),
   PRIMARY KEY (customer_id));
```

```
INSERT INTO customer (customer_id, customer_name, address, phone)
VALUES ('1', 'Erichsen', 'Portland', '7896541254');
```

```
fall2021db44=> select * from customer where customer_id = 1;
 customer_id | customer_name | address  |   phone
-------------+---------------+----------+------------
           1 | Erichsen      | Portland | 7896541254
(1 row)
```

```
CREATE TABLE showroom (
   showroom_id int NOT NULL,
   showroom_name varchar(255) NOT NULL,
   showroom_address varchar(255),
   FOREIGN KEY (company_id) REFERENCES orders (company_id));
   PRIMARY KEY (showroom_id));
```

```
INSERT INTO showroom (showroom_id, showroom_name, showroom_address, company_id)
VALUES ('3001', Ziemann-Conroy, 469 Vera Trail, 1);
```

```
showroom_id |           showroom_name            |       showroom_address       | company_id
------------+------------------------------------+------------------------------+------------
       3001 | Ziemann-Conroy                     | 469 Vera Trail               |          1
       3003 | Krajcik LLC                        | 94582 Vernon Crossing        |          1
       3004 | Wehner Inc                         | 4 Kenwood Way                |          1
```

```
CREATE TABLE manufacturer (
   manu_id int NOT NULL,
   manu_name varchar(255) NOT NULL,
   manu_address varchar(255),
         manu_phone CHAR(10),
   PRIMARY KEY (manu_id));

INSERT INTO manufacturer (manu_id, manu_name, manu_address, manu_phone)
VALUES ('2001', 'Gislason Inc, ‘967 Northfield Center’, 9208945632);
```

manu_id	manu_name	manu_address	manu_phone
2001	Gislason Inc	967 Northfield Center	9208945632
2002	Weissnat Group	30 Calypso Plaza	3474273387
2003	Hessel Group	43085 Maywood Point	4591120978
2004	Hyatt-Rempel	51610 Annamark Terrace	7106088931

```
CREATE TABLE orders (
   order_id int NOT NULL,
   customer_id int NOT NULL,
   manu_id int NOT NULL,
         showroom_id int NOT NULL,
         order_name varchar(255),
         company_id int,
   PRIMARY KEY (order_id),
         FOREIGN KEY (customer_id) REFERENCES customer(customer_id),
         FOREIGN KEY (manu_id) REFERENCES manufacturer(manu_id),
         FOREIGN KEY (showroom_id) REFERENCES showroom(showroom_id));

INSERT INTO orders (order_id, customer_id, manu_id, showroom_id, order_name)
VALUES (1001, 1, 2001, 3001, "Chain");
```

order_id	customer_id	manu_id	showroom_id	order_name
1001	1	2001	3001	Chain
1002	2	2002	3002	Notothylas
1003	3	2003	3003	Spreading Navarretia
1004	4	2004	3004	Pterostegia
1005	5	2005	3005	necklace

```
CREATE TABLE billamount (
```

```
bill_id int NOT NULL,
order_id int NOT NULL,
tax_amount int,
        crafting_charges int,
        gold_price int,
        silver_price int,
        total_bill int,
PRIMARY KEY (bill_id),
        FOREIGN KEY (order_id) REFERENCES orders(order_id));
```

INSERT INTO billamount (bill_id, order_id, tax_amount, crafting_charges, gold_price, silver_price, total_bill)
VALUES (4001, 1001, 2, 3, 5, 1, 11);

bill_id	order_id	tax_amount	crafting_charges	gold_price	silver_price	total_bill
4001	1001	2	3	5	1	11
4002	1002	4	5	8	5	22
4003	1003	6	7	11	9	33
4004	1004	8	9	14	13	44
4005	1005	10	11	17	17	55

CREATE TABLE company (company_id int NOT NULL, company_name varchar(255) PRIMARY KEY (company_id), FOREIGN KEY (company_id) REFERENCES orders(company_id));

INSERT INTO company (company_id, company_name) VALUES (1, 'SEATTLE JEWLS');

```
fall2021db44=> select * from company;
 company_id |     company_name
------------+----------------------
          1 | SEATTLE JEWLS
          2 | PHOENIX JEWLS
          3 | NEWYORK JEWLS
          4 | PORTLAND JEWLS
          5 | FLORIDA JEWLS
          6 | VIRGINIA JEWLS
```