

VIDEOGAME STORE DATABASE

April 9th, 2021
Final Report

Samuel Solomon

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Overview

UoD: Video Game Store

Bob owns a video game store that needs some organization. He has many games with different categories, prices, ratings, and publishers. Bob loves to know all the information about his games. He makes sure he has facts about the publisher stored. He keeps publisher information like who the founders are and where they have their headquarters. Each game has only one publisher. Bob also keeps tracks of his customers. He saves their email, phone number, name, and birthdate. If the customer is under 18, they can't buy a game that's rated R. Bob keeps track of all his orders with order numbers and records of which customer made the order, the items bought, and the calculated total price. He also has to keep track of his employees. They each have names, job titles, and salaries. This database is designed to keep Bob's store organized and help him easily find out information like:

- What action games are in the store?
- Does Bob own Minecraft for Xbox?
- What games by Notch does Bob own?
- What games are under 20\$?
- Which games are R-rated?
- Can Susan buy her favorite R-rated game?
- How much does Alan get paid?
- Where is the Bethesda headquarters?
- What was the total for Susan's last order?

Business Rules:

Structural Assertions:

- . Each item must have a price
- . Each item has a customer rating
- . Each item has a price
- . An item can be a console or a game, but never both
- . A game has a maturity rating
- . A console has a developer
- . A publisher has a founder
- . A publisher has a founder location
- . A publisher has an ID
- . A publisher has a headquarters
- . A game category has a name
- . A total number of games in a category is stored.
- . A person has a phone number
- . A person has an email
- . A person has a birthdate
- . A person has an age
- . A person can be a customer or employee and may be both
- . A customer has a membership
- . Employees have a job title
- . Employees have a salary
- . Orders have order numbers
- . Orders store a list of items purchased
- . Orders have a total price
- . Each game has only one publisher
- . Publishers can have multiple games
- . An order can have only one customer
- . A customer can have many or zero orders

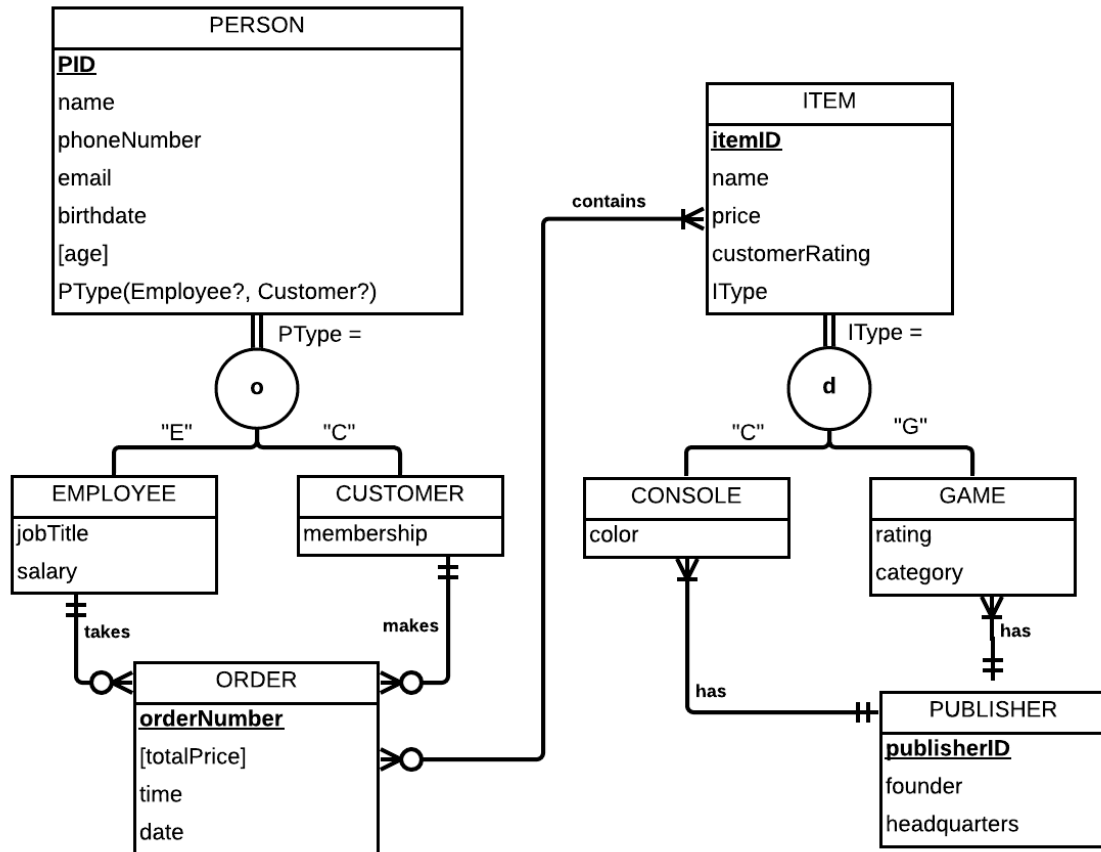
Action Assertions:

- . Customers under 18 cannot buy R-rated games
- . When an order is made, the employee ID is stored
- . When an order is made, the time is stored
- . When an order is made, the date ID is stored

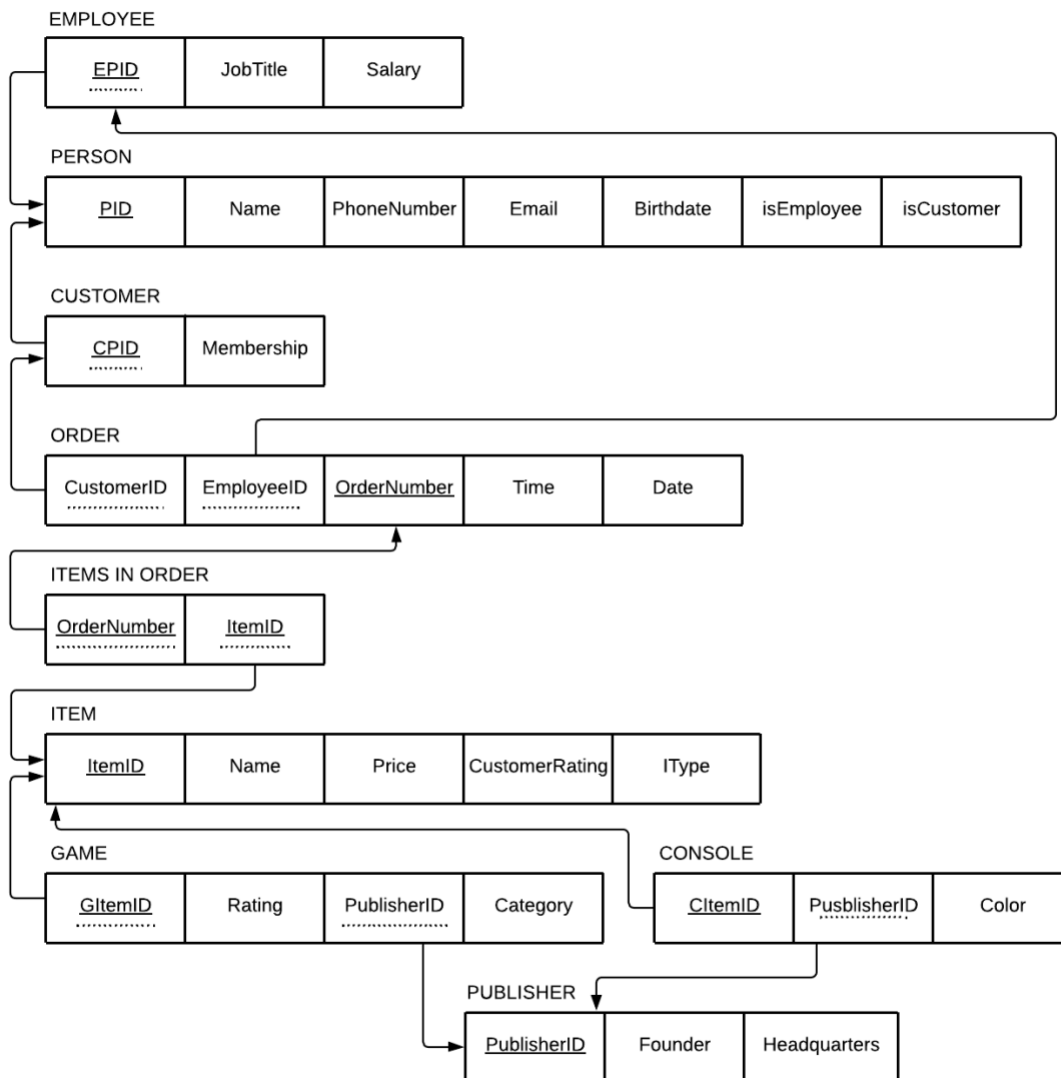
Derived Statements:

- . A customer's age is calculated from their birthdate and current date
- . Order total is calculated from the price of each item bought

E-R diagram



Set of schemas



Database creation and population script file.

```
/*
Group 1: Samuel Solomon, Fritz Paz, Cameron Dolly, Logo Olagoke
CMS 375 Phase 4
Implementation
Creation and Population file
*/

-- if database exists, delete it and recreate it
DROP database IF EXISTS videoStore;
CREATE database videoStore;
USE videoStore;

-- if the table exists, delete it
DROP TABLE IF EXISTS Person, Employee, Customer, Item, Order_t, OrderItems, Game;

-- ----- Table creations(DDL) -----

-- defines base table person
CREATE TABLE Person(
    PID int NOT NULL,
    Name varchar(40) NOT NULL,
    PhoneNumber char(10),
    Email varchar(50),
    Birthdate varchar(10),
    isEmployee char(1) DEFAULT 'f',
    isCustomer char(1) DEFAULT 'f',
    Constraint Person_pk PRIMARY KEY (PID)
);

-- defines employee table
CREATE TABLE Employee(
    EPID int NOT NULL,
    JobTitle varchar(30) NOT NULL,
    Salary int,
    Constraint Employee_pk PRIMARY KEY (EPID),
    Constraint Employee_fk FOREIGN KEY (EPID) references Person(PID)
);
```

```

-- defines customer table
CREATE TABLE Customer(
    CPID int NOT NULL,
    Membership varchar(6),
    Check(Membership in ("Gold", "Silver", "Bronze")),
    Constraint Customer_pk PRIMARY KEY (CPID),
    Constraint Customer_fk FOREIGN KEY (CPID) references Person(PID)
);

-- defines base table item
CREATE TABLE Item(
    ItemID int NOT NULL,
    Name varchar(24) NOT NULL,
    Price int NOT NULL DEFAULT 0,
    CustomerRating int,
    IType char(1),
    Check(IType in ("g", "c")),
    Constraint Item_pk PRIMARY KEY (ItemID)
);

-- defines base table order
CREATE TABLE Order_t(
    OrderNumber int NOT NULL,
    CustomerID int NOT NULL,
    EmployeeID int NOT NULL,
    OrderTime int,
    OrderDate varchar(10),
    Constraint Order_pk PRIMARY KEY (OrderNumber),
    Constraint Order_fk_1 FOREIGN KEY (CustomerID) REFERENCES Person(PID),
    Constraint Order_fk_2 FOREIGN KEY (EmployeeID) REFERENCES Person(PID)
);

-- defines items in order table
CREATE TABLE OrderItems(
    OrderNumber int NOT NULL,
    ItemID int NOT NULL,
    Constraint OrderItems_pk PRIMARY KEY (OrderNumber, ItemID),
    Constraint OrderItems_fk_1 FOREIGN KEY (OrderNumber) REFERENCES
Order_t(OrderNumber),
    Constraint OrderItems_fk_2 FOREIGN KEY (ItemID) REFERENCES Item(ItemID)
);

```



```

-- defines base table publisher
CREATE TABLE Publisher(
    PublisherID int NOT NULL,
    Founder varchar(40),
    Headquarters varchar(20),
    Constraint Publisher_pk PRIMARY KEY (PublisherID)
);

-- defines game table
CREATE TABLE Game(
    GameID int NOT NULL,
    PublisherID int NOT NULL,
    Rating varchar(4),
    Check(Rating in ('PG','PG13','M','E','R')),
    Category varchar(12),
    Check(Category in ('Action','Adventure','Fighting','Racing','Role-playing','Shooter','Strategy','Other')),
    Constraint Game_pk PRIMARY KEY (GameID),
    Constraint Game_fk_1 FOREIGN KEY (GameID) REFERENCES Item(ItemID),
    Constraint Game_fk_2 FOREIGN KEY (PublisherID) REFERENCES Publisher(PublisherID)
);

-- defines console table
CREATE TABLE Console(
    ConsoleID int NOT NULL,
    PublisherID int NOT NULL,
    Color varchar(15),
    Constraint Console_pk PRIMARY KEY (ConsoleID),
    Constraint Console_fk_1 FOREIGN KEY (ConsoleID) REFERENCES Item(ItemID),
    Constraint Console_fk_2 FOREIGN KEY (PublisherID) REFERENCES Publisher(PublisherID)
);

```

-- ----- Table populations (DML) -----

-- BASE TABLE Person: PID, Name, Phone Number, Email, DOB, employee?, customer?

-- Data for person. Employees only

```
INSERT INTO Person VALUES (1, 'Logo Olagoke', '9873458736', 'la@gmail.com', '02/09/2000', 't', 'f');
INSERT INTO Person VALUES (2, 'Samuel Solomon', '4071234567', 'ss@gmail.com', '04/20/1996', 't', 'f');
INSERT INTO Person VALUES (3, 'Cameron Dolly', '2392982938', 'Cdolly@yahoo.com', '09/03/1998', 't', 'f');
INSERT INTO Person VALUES (4, 'Fritz Paz', '2872092983', 'fpaz@yahoo.com', '03/06/2000', 't', 'f');
INSERT INTO Person VALUES (5, 'Layo Olagoke', '9273450736', 'layo@gmail.com', '03/12/2000', 't', 'f');
INSERT INTO Person VALUES (6, 'Cameron Ponce', '239598898', 'Cponce@yahoo.com', '01/03/2003', 't', 'f');
INSERT INTO Person VALUES (7, 'Florence Laz', '1432092921', 'flaz@outlook.com', '03/06/2004', 't', 'f');
INSERT INTO Person VALUES (24, 'Bob Ross', '1231118765', 'bross@mail.com', '03/06/1944', 't', 'f');
INSERT INTO Person VALUES (25, 'Bob Ross jr', '4012231534', 'brossjr@mail.com', '03/06/1984', 't', 'f');
INSERT INTO Person VALUES (26, 'Jane Good', '8123321654', 'janeG@mail.com', '01/26/1974', 't', 'f');
INSERT INTO Person VALUES (27, 'George Noble', '2143546677', 'gnoble@mail.com', '03/06/1933', 't', 'f');
INSERT INTO Person VALUES (28, 'Chris Wild', NULL, 'chrisw@mail.com', '02/17/1984', 't', 'f');
INSERT INTO Person VALUES (29, 'Marge Simpson', '8089765423', 'marges@mail.com', '11/16/1974', 't', 'f');
INSERT INTO Person VALUES (30, 'Bob Chris', '2143546677', 'bobChris@mail.com', '12/25/1983', 't', 'f');
INSERT INTO Person VALUES (31, 'Shawn Grey', NULL, 'shawnnnn@mail.com', '12/17/1984', 't', 'f');
INSERT INTO Person VALUES (32, 'Jenny W', '8089765423', 'jennyrocks@mail.com', '11/01/1984', 't', 'f');
```

-- Data for person. Customers only

```
INSERT INTO Person VALUES (8, 'John Doe', '4071112222', 'jdoe@email.com', '03/06/1950', 'f', 't');
INSERT INTO Person VALUES (9, 'Jenny Jo', '3671116368', 'jjo@email.com', '09/15/1999', 'f', 't');
INSERT INTO Person VALUES (10, 'Bob Buidier', '1213456243', 'bbuilder@email.com', '07/30/1967', 'f', 't');
INSERT INTO Person VALUES (11, 'Mickey Mouse', '8905621111', 'mmouse@email.com', '10/30/2001', 'f', 't');
INSERT INTO Person VALUES (12, 'Ryan Gosling', '8731237676', 'rgos@email.com', '12/12/1983', 'f', 't');
INSERT INTO Person VALUES (13, 'Elon Musk', '3030012255', 'emusk@email.com', '01/22/1961', 'f', 't');
INSERT INTO Person VALUES (14, 'John Deer', '4321112222', 'jdeer@email.com', '03/05/1950', 'f', 't');
INSERT INTO Person VALUES (15, 'Sally Ride', '7775261432', 'sride@email.com', '11/22/1954', 'f', 't');
INSERT INTO Person VALUES (21, 'Karen Right', NULL, 'karenRIGHT@email.com', '12/03/1977', 'f', 't');
INSERT INTO Person VALUES (22, 'Mary Jane', '5094201943', 'mj@email.com', '05/20/1995', 'f', 't');
INSERT INTO Person VALUES (23, 'Mary Doe', '4071651122', 'mdoe@email.com', '02/22/2002', 'f', 't');
INSERT INTO Person VALUES (33, 'Sierra Doe', '4071734382', 'sdoe@gmail.com', '01/17/1998', 'f', 't');
INSERT INTO Person VALUES (34, 'Mary Women', '4072856183', NULL, '07/02/1955', 'f', 't');
INSERT INTO Person VALUES (35, 'Vincent Adultman', '4076548521', 'vadultman@realmail.com', '08/12/1964', 'f', 't');
INSERT INTO Person VALUES (36, 'Mclovin', '4079843578', 'mclovin@hawaii.com', '06/03/1981', 'f', 't');
```

-- Data for person. Customer and Employee

```
INSERT INTO Person VALUES (16, 'Alice Grace', '1212341098', 'agrace@email.com', '05/01/1998', 't', 't');
INSERT INTO Person VALUES (17, 'Ron Gold', '4076224132', 'ronlovesbeth@email.com', '07/01/1971', 't', 't');
INSERT INTO Person VALUES (18, 'Beth Gold', '4076224132', 'bethlovesron@email.com', '07/22/1971', 't', 't');
INSERT INTO Person VALUES (19, 'Ethan Marc', '4123215566', 'ethanrox@email.com', '04/01/2009', 't', 't');
INSERT INTO Person VALUES (20, 'Alan', NULL, NULL, '01/01/1922', 't', 't');
```

-- Data for Employee: ~ID(Must match a PID), Job title, Salary

```
INSERT INTO Employee VALUES (1, 'Programmer', 80000);
INSERT INTO Employee VALUES (2, 'Cashier', 20000);
INSERT INTO Employee VALUES (3, 'Cashier', 20000);
INSERT INTO Employee VALUES (4, 'Programmer', 97000);
INSERT INTO Employee VALUES (5, 'Cashier', 12000);
```

```

INSERT INTO Employee VALUES (6, 'Manager', 150000);
INSERT INTO Employee VALUES (7, 'Front end developer', 100000);
INSERT INTO Employee VALUES (16, 'Programmer', 80000);
INSERT INTO Employee VALUES (17, 'Cashier', 33000);
INSERT INTO Employee VALUES (18, 'Cashier', 11000);
INSERT INTO Employee VALUES (19, 'Programmer', 95000);
INSERT INTO Employee VALUES (20, 'Cashier', 15000);
INSERT INTO Employee VALUES (24, 'Cashier', 20000);
INSERT INTO Employee VALUES (25, 'Cashier', 20000);
INSERT INTO Employee VALUES (26, 'Programmer', 97000);
INSERT INTO Employee VALUES (27, 'Cashier', 12000);
INSERT INTO Employee VALUES (28, 'Manager', 150000);
INSERT INTO Employee VALUES (29, 'Front end developer', 100000);
INSERT INTO Employee VALUES (30, 'Programmer', 80000);
INSERT INTO Employee VALUES (31, 'Cashier', 33000);
INSERT INTO Employee VALUES (32, 'Cashier', 11000);

-- Data for Customer: ~ID(Must match a PID), Membership(Gold, Silver, or Bronze)
INSERT INTO Customer VALUES (8, 'Gold');
INSERT INTO Customer VALUES (9, 'Gold');
INSERT INTO Customer VALUES (10, 'Gold');
INSERT INTO Customer VALUES (11, 'Silver');
INSERT INTO Customer VALUES (12, 'Gold');
INSERT INTO Customer VALUES (13, 'Bronze');
INSERT INTO Customer VALUES (14, 'Gold');
INSERT INTO Customer VALUES (15, 'Silver');
INSERT INTO Customer VALUES (16, 'Gold');
INSERT INTO Customer VALUES (17, 'Silver');
INSERT INTO Customer VALUES (18, 'Gold');
INSERT INTO Customer VALUES (19, 'Gold');
INSERT INTO Customer VALUES (20, 'Bronze');
INSERT INTO Customer VALUES (21, 'Gold');
INSERT INTO Customer VALUES (22, 'Bronze');
INSERT INTO Customer VALUES (23, 'Silver');
INSERT INTO Customer VALUES (33, 'Silver');
INSERT INTO Customer VALUES (34, 'Silver');
INSERT INTO Customer VALUES (35, 'Silver');
INSERT INTO Customer VALUES (36, 'Silver');

-- BASE TABLE Item: ID, name, cost, rating, type (g or c)
-- Data for Item: games
INSERT INTO Item VALUES (1, 'FIFA 14', 90, 5, 'g');
INSERT INTO Item VALUES (2, 'GTA 5', 20, 4, 'g');
INSERT INTO Item VALUES (3, 'FLY TO SPACE', 100, 2, 'g');
INSERT INTO Item VALUES (4, 'FIFA 15', 88, 3, 'g');
INSERT INTO Item VALUES (5, 'GTA Vice City', 80, 1, 'g');
INSERT INTO Item VALUES (6, 'Top Eleven', 100, 5, 'g');
INSERT INTO Item VALUES (7, 'FIFA 16', 100, 3, 'g');
INSERT INTO Item VALUES (8, 'GTA Xan', 50, 4, 'g');
INSERT INTO Item VALUES (9, 'FLY TO SPACE 2', 120, 4, 'g');
INSERT INTO Item VALUES (10, 'FIFA 09', 68, 3, 'g');
INSERT INTO Item VALUES (11, 'GTA Vice City 2', 88, 3, 'g');
INSERT INTO Item VALUES (12, 'Football Manager', 120, 5, 'g');

```

```

INSERT INTO Item VALUES (13, 'FIFA 04', 99, 5, 'g');
INSERT INTO Item VALUES (14, 'GTA Fango', 29, 4, 'g');
INSERT INTO Item VALUES (15, 'FLY TO SPACE 3', 120, 5, 'g');
INSERT INTO Item VALUES (16, 'FIFA 05', 84, 3, 'g');
INSERT INTO Item VALUES (17, 'GTA Vice Land', 89, 1, 'g');
INSERT INTO Item VALUES (18, 'Top Boys', 102, 5, 'g');
INSERT INTO Item VALUES (19, 'PES 10', 110, 3, 'g');
INSERT INTO Item VALUES (20, 'GTA Xander 2', 60, 4, 'g');
INSERT INTO Item VALUES (21, 'FLY TO SPACE 3', 130, 5, 'g');
INSERT INTO Item VALUES (22, 'FIFA 19', 68, 3, 'g');
INSERT INTO Item VALUES (23, 'GTA Ki City 2', 89, 3, 'g');
INSERT INTO Item VALUES (24, 'Badass Cutie Birds', 1, 5, 'g');

```

-- Data for Item: consoles

```

INSERT INTO Item VALUES (25, 'Xbox', 400, 5, 'c');
INSERT INTO Item VALUES (26, 'Xbox M', 450, 4, 'c');
INSERT INTO Item VALUES (27, 'PS3', 490, 5, 'c');
INSERT INTO Item VALUES (28, 'PSP', 50, 4, 'c');
INSERT INTO Item VALUES (29, 'PS5', 500, 2, 'c');
INSERT INTO Item VALUES (30, 'PS 2', 200, 4, 'c');
INSERT INTO Item VALUES (31, 'PS', 100, 5, 'c');
INSERT INTO Item VALUES (32, 'Xbox X', 400, 5, 'c');
INSERT INTO Item VALUES (33, 'Xbox M 2', 450, 4, 'c');
INSERT INTO Item VALUES (34, 'PS3 V2', 412, 2, 'c');
INSERT INTO Item VALUES (35, 'PSP Vango', 80, 4, 'c');
INSERT INTO Item VALUES (36, 'PS5 Plus', 520, 1, 'c');
INSERT INTO Item VALUES (37, 'PS 2 v2', 220, 4, 'c');
INSERT INTO Item VALUES (38, 'PS Ki', 100, 5, 'c');
INSERT INTO Item VALUES (39, 'Xbox Kinnect', 400, 5, 'c');
INSERT INTO Item VALUES (40, 'Xbox Mang', 450, 4, 'c');
INSERT INTO Item VALUES (41, 'PS3 2015', 490, 5, 'c');
INSERT INTO Item VALUES (42, 'PSP 2000', 200, 2, 'c');
INSERT INTO Item VALUES (43, 'PS5 Classic', 500, 3, 'c');
INSERT INTO Item VALUES (44, 'PS 2 Retro', 220, 2, 'c');
INSERT INTO Item VALUES (45, 'PS Django', 100, 5, 'c');

```

-- Data for Order: OrderNum, ~Customer ID, ~Employee ID, Order Time (Military), Order Date

```

INSERT INTO Order_t VALUES (1, 8, 1, 1200, '01/31/2019');
INSERT INTO Order_t VALUES (2, 9, 2, 1400, '02/31/2019');
INSERT INTO Order_t VALUES (3, 10, 3, 0800, '03/01/2019');
INSERT INTO Order_t VALUES (4, 11, 4, 0100, '03/15/2019');
INSERT INTO Order_t VALUES (5, 12, 6, 1500, '05/17/2019');
INSERT INTO Order_t VALUES (6, 13, 7, 0900, '05/25/2019');
INSERT INTO Order_t VALUES (7, 14, 16, 0400, '07/15/2019');
INSERT INTO Order_t VALUES (8, 15, 17, 1100, '08/17/2019');
INSERT INTO Order_t VALUES (9, 21, 18, 0800, '11/25/2019');
INSERT INTO Order_t VALUES (10, 22, 19, 2200, '12/15/2019');
INSERT INTO Order_t VALUES (11, 8, 20, 1000, '12/15/2019');
INSERT INTO Order_t VALUES (12, 11, 5, 0100, '05/15/2020');
INSERT INTO Order_t VALUES (13, 8, 1, 1200, '01/31/2021');
INSERT INTO Order_t VALUES (14, 9, 2, 1400, '02/31/2021');
INSERT INTO Order_t VALUES (15, 10, 3, 0800, '03/01/2021');
INSERT INTO Order_t VALUES (16, 11, 4, 0100, '03/15/2021');

```

```

INSERT INTO Order_t VALUES (17, 12, 6, 1500, '03/17/2021');
INSERT INTO Order_t VALUES (18, 8, 1, 1200, '01/31/2020');
INSERT INTO Order_t VALUES (19, 9, 2, 1400, '02/31/2020');
INSERT INTO Order_t VALUES (20, 10, 3, 0800, '03/01/2020');
INSERT INTO Order_t VALUES (21, 11, 4, 0100, '03/15/2020');
INSERT INTO Order_t VALUES (22, 12, 6, 1500, '05/17/2020');
INSERT INTO Order_t VALUES (23, 13, 7, 0900, '05/25/2020');
INSERT INTO Order_t VALUES (24, 14, 16, 0400, '07/15/2020');
INSERT INTO Order_t VALUES (25, 15, 17, 1100, '08/17/2020');
INSERT INTO Order_t VALUES (26, 21, 7, 0800, '11/25/2020');
INSERT INTO Order_t VALUES (27, 22, 19, 2200, '12/15/2020');
INSERT INTO Order_t VALUES (28, 8, 2, 1000, '12/15/2020');
INSERT INTO Order_t VALUES (29, 11, 5, 0100, '05/15/2020');
INSERT INTO Order_t VALUES (30, 8, 1, 1200, '01/31/2021');
INSERT INTO Order_t VALUES (31, 9, 2, 1400, '02/31/2021');
INSERT INTO Order_t VALUES (32, 10, 3, 0800, '03/01/2021');
INSERT INTO Order_t VALUES (33, 11, 4, 0100, '03/15/2021');
INSERT INTO Order_t VALUES (34, 12, 6, 1500, '03/17/2021');
INSERT INTO Order_t VALUES (35, 8, 1, 1200, '01/31/2020');
INSERT INTO Order_t VALUES (36, 9, 2, 1400, '02/31/2020');
INSERT INTO Order_t VALUES (37, 10, 3, 0800, '03/01/2020');
INSERT INTO Order_t VALUES (38, 11, 4, 0100, '03/15/2020');
INSERT INTO Order_t VALUES (39, 12, 6, 1500, '05/17/2020');
INSERT INTO Order_t VALUES (40, 13, 7, 0900, '05/25/2020');
INSERT INTO Order_t VALUES (41, 14, 16, 0400, '07/15/2020');
INSERT INTO Order_t VALUES (42, 15, 17, 1100, '08/17/2020');
INSERT INTO Order_t VALUES (43, 21, 18, 0800, '11/25/2020');
INSERT INTO Order_t VALUES (44, 22, 19, 2200, '12/15/2020');
INSERT INTO Order_t VALUES (45, 8, 20, 1000, '12/15/2020');
INSERT INTO Order_t VALUES (46, 11, 5, 0100, '05/15/2020');
INSERT INTO Order_t VALUES (47, 8, 1, 1200, '01/31/2021');
INSERT INTO Order_t VALUES (48, 9, 2, 1400, '02/31/2021');
INSERT INTO Order_t VALUES (49, 10, 3, 0800, '03/01/2021');
INSERT INTO Order_t VALUES (50, 11, 4, 0100, '03/15/2021');
INSERT INTO Order_t VALUES (51, 12, 6, 1500, '03/17/2021');
INSERT INTO Order_t VALUES (52, 8, 1, 1200, '01/31/2020');
INSERT INTO Order_t VALUES (53, 9, 2, 1400, '02/31/2020');
INSERT INTO Order_t VALUES (54, 10, 3, 0800, '03/01/2020');
INSERT INTO Order_t VALUES (55, 11, 4, 0100, '03/15/2020');
INSERT INTO Order_t VALUES (56, 12, 6, 1500, '05/17/2020');
INSERT INTO Order_t VALUES (57, 13, 7, 0900, '05/25/2020');
INSERT INTO Order_t VALUES (58, 14, 16, 0400, '07/15/2020');
INSERT INTO Order_t VALUES (59, 15, 17, 1100, '08/17/2020');
INSERT INTO Order_t VALUES (60, 21, 7, 0800, '11/25/2020');
INSERT INTO Order_t VALUES (61, 22, 19, 2200, '12/15/2020');
INSERT INTO Order_t VALUES (62, 8, 2, 1000, '12/15/2020');
INSERT INTO Order_t VALUES (63, 11, 5, 0100, '05/15/2020');
INSERT INTO Order_t VALUES (64, 8, 1, 1200, '01/31/2021');
INSERT INTO Order_t VALUES (65, 9, 2, 1400, '02/31/2021');
INSERT INTO Order_t VALUES (66, 10, 3, 0800, '03/01/2021');
INSERT INTO Order_t VALUES (67, 11, 4, 0100, '03/15/2021');
INSERT INTO Order_t VALUES (68, 12, 6, 1500, '03/17/2021');
INSERT INTO Order_t VALUES (69, 22, 19, 2200, '12/15/2020');

```

```

INSERT INTO Order_t VALUES (70, 8, 20, 1000, '12/15/2020');
INSERT INTO Order_t VALUES (71, 11, 5, 0100, '05/15/2020');
INSERT INTO Order_t VALUES (72, 8, 1, 1200, '01/31/2021');
INSERT INTO Order_t VALUES (73, 9, 2, 1400, '02/31/2021');
INSERT INTO Order_t VALUES (74, 10, 3, 0800, '03/01/2021');
INSERT INTO Order_t VALUES (75, 11, 4, 0100, '03/15/2021');
INSERT INTO Order_t VALUES (76, 12, 6, 1500, '03/17/2021');
INSERT INTO Order_t VALUES (77, 8, 1, 1200, '01/31/2020');
INSERT INTO Order_t VALUES (78, 9, 2, 1400, '02/31/2020');
INSERT INTO Order_t VALUES (79, 10, 3, 0800, '03/01/2020');
INSERT INTO Order_t VALUES (80, 11, 4, 0100, '03/15/2020');
INSERT INTO Order_t VALUES (81, 12, 6, 1500, '05/17/2020');
INSERT INTO Order_t VALUES (82, 13, 7, 0900, '05/25/2020');
INSERT INTO Order_t VALUES (83, 14, 16, 0400, '07/15/2020');
INSERT INTO Order_t VALUES (84, 15, 17, 1100, '08/17/2020');
INSERT INTO Order_t VALUES (85, 21, 7, 0800, '11/25/2020');
INSERT INTO Order_t VALUES (86, 22, 19, 2200, '12/15/2020');
INSERT INTO Order_t VALUES (87, 8, 2, 1000, '12/15/2020');
INSERT INTO Order_t VALUES (88, 11, 5, 0100, '05/15/2020');
INSERT INTO Order_t VALUES (89, 8, 1, 1200, '01/31/2021');
INSERT INTO Order_t VALUES (90, 9, 2, 1400, '02/31/2021');
INSERT INTO Order_t VALUES (91, 10, 3, 0800, '03/01/2021');
INSERT INTO Order_t VALUES (92, 11, 4, 0100, '03/15/2021');
INSERT INTO Order_t VALUES (93, 12, 6, 1500, '03/17/2021');
INSERT INTO Order_t VALUES (94, 8, 1, 1200, '01/31/2020');
INSERT INTO Order_t VALUES (95, 9, 2, 1400, '02/31/2020');
INSERT INTO Order_t VALUES (96, 10, 3, 0800, '03/01/2020');
INSERT INTO Order_t VALUES (97, 11, 4, 0100, '03/15/2020');
INSERT INTO Order_t VALUES (98, 12, 6, 1500, '05/17/2020');
INSERT INTO Order_t VALUES (99, 13, 7, 0900, '05/25/2020');
INSERT INTO Order_t VALUES (100, 14, 16, 0400, '07/15/2020');
INSERT INTO Order_t VALUES (101, 15, 17, 1100, '08/17/2020');
INSERT INTO Order_t VALUES (102, 21, 18, 0800, '11/25/2020');
INSERT INTO Order_t VALUES (103, 22, 19, 2200, '12/15/2020');
INSERT INTO Order_t VALUES (104, 8, 20, 1000, '12/15/2020');
INSERT INTO Order_t VALUES (105, 11, 5, 0100, '05/15/2020');
INSERT INTO Order_t VALUES (106, 8, 1, 1200, '01/31/2021');
INSERT INTO Order_t VALUES (107, 9, 2, 1400, '02/31/2021');
INSERT INTO Order_t VALUES (108, 10, 3, 0800, '03/01/2021');
INSERT INTO Order_t VALUES (109, 11, 4, 0100, '03/15/2021');
INSERT INTO Order_t VALUES (110, 12, 6, 1500, '03/17/2021');
INSERT INTO Order_t VALUES (111, 8, 1, 1200, '01/31/2020');
INSERT INTO Order_t VALUES (112, 9, 2, 1400, '02/31/2020');
INSERT INTO Order_t VALUES (113, 10, 3, 0800, '03/01/2020');
INSERT INTO Order_t VALUES (114, 11, 4, 0100, '03/15/2020');
INSERT INTO Order_t VALUES (115, 12, 6, 1500, '05/17/2020');
INSERT INTO Order_t VALUES (116, 13, 7, 0900, '05/25/2020');
INSERT INTO Order_t VALUES (117, 14, 16, 0400, '07/15/2020');
INSERT INTO Order_t VALUES (118, 15, 17, 1100, '08/17/2020');
INSERT INTO Order_t VALUES (119, 21, 7, 0800, '11/25/2020');
INSERT INTO Order_t VALUES (120, 22, 19, 2200, '12/15/2020');
INSERT INTO Order_t VALUES (121, 8, 2, 1000, '12/15/2020');
INSERT INTO Order_t VALUES (122, 11, 5, 0100, '05/15/2020');

```

```

INSERT INTO Order_t VALUES (123, 8, 1, 1200, '01/31/2021');
INSERT INTO Order_t VALUES (124, 9, 2, 1400, '02/31/2021');
INSERT INTO Order_t VALUES (125, 10, 3, 0800, '03/01/2021');
INSERT INTO Order_t VALUES (126, 11, 4, 0100, '03/15/2021');
INSERT INTO Order_t VALUES (127, 12, 6, 1500, '03/17/2021');
INSERT INTO Order_t VALUES (128, 15, 17, 1100, '08/17/2020');
INSERT INTO Order_t VALUES (129, 21, 7, 0800, '11/25/2020');
INSERT INTO Order_t VALUES (130, 22, 19, 2200, '12/15/2020');
INSERT INTO Order_t VALUES (131, 8, 2, 1000, '12/15/2020');
INSERT INTO Order_t VALUES (132, 11, 5, 0100, '05/15/2020');
INSERT INTO Order_t VALUES (133, 8, 1, 1200, '01/31/2021');
INSERT INTO Order_t VALUES (134, 9, 2, 1400, '02/31/2021');
INSERT INTO Order_t VALUES (135, 10, 3, 0800, '03/01/2021');
INSERT INTO Order_t VALUES (136, 11, 4, 0100, '03/15/2021');
INSERT INTO Order_t VALUES (137, 12, 6, 1500, '03/17/2021');
INSERT INTO Order_t VALUES (138, 15, 17, 1100, '08/17/2020');
INSERT INTO Order_t VALUES (139, 21, 7, 0800, '11/25/2020');
INSERT INTO Order_t VALUES (140, 22, 19, 2200, '12/15/2020');
INSERT INTO Order_t VALUES (141, 8, 2, 1000, '12/15/2020');
INSERT INTO Order_t VALUES (142, 11, 5, 0100, '05/15/2020');
INSERT INTO Order_t VALUES (143, 8, 1, 1200, '01/31/2021');
INSERT INTO Order_t VALUES (144, 9, 2, 1400, '02/31/2021');
INSERT INTO Order_t VALUES (145, 10, 3, 0800, '03/01/2021');
INSERT INTO Order_t VALUES (146, 11, 4, 0100, '03/15/2021');
INSERT INTO Order_t VALUES (147, 12, 6, 1500, '03/17/2021');
INSERT INTO Order_t VALUES (148, 15, 17, 1100, '08/17/2020');
INSERT INTO Order_t VALUES (149, 21, 7, 0800, '11/30/2020');
INSERT INTO Order_t VALUES (150, 22, 19, 2200, '12/15/2020');

```

-- Data for items in order or OrderItems: ~Order Number, ~Item ID

```

INSERT INTO OrderItems Values (1, 3);
INSERT INTO OrderItems Values (2, 5);
INSERT INTO OrderItems Values (3, 7);
INSERT INTO OrderItems Values (4, 10);
INSERT INTO OrderItems Values (4, 13);
INSERT INTO OrderItems Values (5, 1);
INSERT INTO OrderItems Values (6, 3);
INSERT INTO OrderItems Values (7, 11);
INSERT INTO OrderItems Values (8, 4);
INSERT INTO OrderItems Values (9, 6);
INSERT INTO OrderItems Values (10, 22);
INSERT INTO OrderItems Values (11, 24);
INSERT INTO OrderItems Values (12, 30);
INSERT INTO OrderItems Values (13, 4);
INSERT INTO OrderItems Values (14, 12);
INSERT INTO OrderItems Values (15, 19);
INSERT INTO OrderItems Values (16, 11);
INSERT INTO OrderItems Values (17, 5);
INSERT INTO OrderItems Values (18, 1);
INSERT INTO OrderItems Values (19, 8);
INSERT INTO OrderItems Values (19, 10);
INSERT INTO OrderItems Values (19, 15);

```

```

INSERT INTO OrderItems Values (20, 13);
INSERT INTO OrderItems Values (21, 31);
INSERT INTO OrderItems Values (22, 19);
INSERT INTO OrderItems Values (23, 40);
INSERT INTO OrderItems Values (24, 35);
INSERT INTO OrderItems Values (25, 2);
INSERT INTO OrderItems Values (26, 15);
INSERT INTO OrderItems Values (27, 6);
INSERT INTO OrderItems Values (28, 27);
INSERT INTO OrderItems Values (29, 29);
INSERT INTO OrderItems Values (30, 9);
INSERT INTO OrderItems Values (31, 43);
INSERT INTO OrderItems Values (32, 45);
INSERT INTO OrderItems Values (33, 5);
INSERT INTO OrderItems Values (34, 26);
INSERT INTO OrderItems Values (35, 42);
INSERT INTO OrderItems Values (36, 16);
INSERT INTO OrderItems Values (37, 27);
INSERT INTO OrderItems Values (38, 19);
INSERT INTO OrderItems Values (39, 24);
INSERT INTO OrderItems Values (40, 18);
INSERT INTO OrderItems Values (41, 6);
INSERT INTO OrderItems Values (42, 3);
INSERT INTO OrderItems Values (43, 43);
INSERT INTO OrderItems Values (44, 10);
INSERT INTO OrderItems Values (45, 27);
INSERT INTO OrderItems Values (46, 11);
INSERT INTO OrderItems Values (47, 21);
INSERT INTO OrderItems Values (48, 13);
INSERT INTO OrderItems Values (49, 7);
INSERT INTO OrderItems Values (50, 38);
INSERT INTO OrderItems Values (51, 35);
INSERT INTO OrderItems Values (52, 4);
INSERT INTO OrderItems Values (53, 39);
INSERT INTO OrderItems Values (54, 15);
INSERT INTO OrderItems Values (55, 29);
INSERT INTO OrderItems Values (56, 32);
INSERT INTO OrderItems Values (57, 14);
INSERT INTO OrderItems Values (58, 8);
INSERT INTO OrderItems Values (59, 36);
INSERT INTO OrderItems Values (60, 9);
INSERT INTO OrderItems Values (61, 12);
INSERT INTO OrderItems Values (62, 20);
INSERT INTO OrderItems Values (63, 41);
INSERT INTO OrderItems Values (64, 26);
INSERT INTO OrderItems Values (65, 33);
INSERT INTO OrderItems Values (66, 22);
INSERT INTO OrderItems Values (67, 35);
INSERT INTO OrderItems Values (68, 1);
INSERT INTO OrderItems Values (69, 22);
INSERT INTO OrderItems Values (70, 14);
INSERT INTO OrderItems Values (71, 30);
INSERT INTO OrderItems Values (72, 7);

```


INSERT INTO OrderItems Values (73, 27);
INSERT INTO OrderItems Values (74, 21);
INSERT INTO OrderItems Values (75, 5);
INSERT INTO OrderItems Values (76, 34);
INSERT INTO OrderItems Values (77, 39);
INSERT INTO OrderItems Values (78, 9);
INSERT INTO OrderItems Values (79, 42);
INSERT INTO OrderItems Values (80, 17);
INSERT INTO OrderItems Values (81, 25);
INSERT INTO OrderItems Values (82, 16);
INSERT INTO OrderItems Values (83, 41);
INSERT INTO OrderItems Values (84, 29);
INSERT INTO OrderItems Values (85, 44);
INSERT INTO OrderItems Values (86, 41);
INSERT INTO OrderItems Values (87, 38);
INSERT INTO OrderItems Values (88, 3);
INSERT INTO OrderItems Values (89, 5);
INSERT INTO OrderItems Values (90, 27);
INSERT INTO OrderItems Values (91, 28);
INSERT INTO OrderItems Values (92, 19);
INSERT INTO OrderItems Values (93, 36);
INSERT INTO OrderItems Values (94, 30);
INSERT INTO OrderItems Values (95, 11);
INSERT INTO OrderItems Values (96, 24);
INSERT INTO OrderItems Values (97, 19);
INSERT INTO OrderItems Values (98, 23);
INSERT INTO OrderItems Values (99, 9);
INSERT INTO OrderItems Values (100, 15);
INSERT INTO OrderItems Values (101, 45);
INSERT INTO OrderItems Values (102, 4);
INSERT INTO OrderItems Values (103, 11);
INSERT INTO OrderItems Values (104, 44);
INSERT INTO OrderItems Values (105, 16);
INSERT INTO OrderItems Values (106, 15);
INSERT INTO OrderItems Values (107, 11);
INSERT INTO OrderItems Values (108, 29);
INSERT INTO OrderItems Values (109, 14);
INSERT INTO OrderItems Values (110, 4);
INSERT INTO OrderItems Values (111, 16);
INSERT INTO OrderItems Values (112, 39);
INSERT INTO OrderItems Values (113, 33);
INSERT INTO OrderItems Values (114, 22);
INSERT INTO OrderItems Values (115, 41);
INSERT INTO OrderItems Values (116, 40);
INSERT INTO OrderItems Values (117, 37);
INSERT INTO OrderItems Values (118, 8);
INSERT INTO OrderItems Values (119, 32);
INSERT INTO OrderItems Values (120, 5);
INSERT INTO OrderItems Values (120, 16);
INSERT INTO OrderItems Values (120, 20);
INSERT INTO OrderItems Values (121, 20);
INSERT INTO OrderItems Values (122, 34);
INSERT INTO OrderItems Values (123, 2);

```

INSERT INTO OrderItems Values (124, 29);
INSERT INTO OrderItems Values (125, 43);
INSERT INTO OrderItems Values (126, 20);
INSERT INTO OrderItems Values (127, 7);
INSERT INTO OrderItems Values (128, 2);
INSERT INTO OrderItems Values (129, 27);
INSERT INTO OrderItems Values (130, 41);
INSERT INTO OrderItems Values (131, 21);
INSERT INTO OrderItems Values (132, 34);
INSERT INTO OrderItems Values (133, 17);
INSERT INTO OrderItems Values (134, 42);
INSERT INTO OrderItems Values (135, 5);
INSERT INTO OrderItems Values (136, 3);
INSERT INTO OrderItems Values (137, 19);
INSERT INTO OrderItems Values (138, 33);
INSERT INTO OrderItems Values (139, 35);
INSERT INTO OrderItems Values (140, 38);
INSERT INTO OrderItems Values (141, 11);
INSERT INTO OrderItems Values (142, 21);
INSERT INTO OrderItems Values (143, 26);
INSERT INTO OrderItems Values (144, 38);
INSERT INTO OrderItems Values (145, 17);
INSERT INTO OrderItems Values (146, 14);
INSERT INTO OrderItems Values (147, 37);
INSERT INTO OrderItems Values (148, 32);
INSERT INTO OrderItems Values (149, 1);
INSERT INTO OrderItems Values (149, 2);
INSERT INTO OrderItems Values (149, 17);
INSERT INTO OrderItems Values (149, 38);
INSERT INTO OrderItems Values (150, 15);

```

-- Data for BASE TABLE Publisher: ID, Founder, HQ

```

INSERT INTO Publisher Values (1,'Take 2', 'Los Angeles, CA');
INSERT INTO Publisher Values (2,'Notch', 'Orlando, FL');
INSERT INTO Publisher Values (3,'Linus Torvald', 'Helsinki, FI');
INSERT INTO Publisher Values (4,'Notch', 'Stockholm, SW');
INSERT INTO Publisher Values (5,'EA Sports', 'Redwood City, CA');
INSERT INTO Publisher Values (6,'Ubisoft', 'Montreuil, FR');
INSERT INTO Publisher Values (7,'Tencent Games', 'Shenzhen, CH');
INSERT INTO Publisher Values (8,'Nintendo', 'Kyoto, JP');
INSERT INTO Publisher Values (9,'Microsoft', 'Redmond, WA');
INSERT INTO Publisher Values (10,'Rockstar Games', 'New York, NY');
INSERT INTO Publisher Values (11,'Sony Entertainment', 'Tokyo, JP');
INSERT INTO Publisher Values (12,'Notch', 'Sunnyvale, CA');
INSERT INTO Publisher Values (13,'Square Enix', 'Kyoto, JP');
INSERT INTO Publisher Values (14,'505 Games', 'Milan, IT');
INSERT INTO Publisher Values (15,'Slitherine Strategies', 'London, UK');
INSERT INTO Publisher Values (16,'Take 2', 'Denver, CO');
INSERT INTO Publisher Values (17,'Bandai Namco', 'Okinawa, JP');
INSERT INTO Publisher Values (18,'Blizzard', 'Los Angeles, CA');
INSERT INTO Publisher Values (19,'SEGA', 'Tokyo, JP');
INSERT INTO Publisher Values (20,'Riot Games', 'San Diego, CA');

```

```

-- Data for Game: ~ID, ~Publisher ID, Rating, Category
-- 'Action', 'Adventure', 'Fighting', 'Racing', 'Role-playing', 'Shooter', 'Strategy', 'Other'
INSERT INTO Game Values(3,1,'E','Shooter');
INSERT INTO Game Values(2,4,'PG','Other');
INSERT INTO Game Values(1,6,'PG13','Shooter');
INSERT INTO Game Values(4,11,'M','Shooter');
INSERT INTO Game Values(5,12,'PG','Other');
INSERT INTO Game Values(6,4,'PG','Racing');
INSERT INTO Game Values(7,5,'PG13','Racing');
INSERT INTO Game Values(8,3,'PG','Role-playing');
INSERT INTO Game Values(9,9,'M','Shooter');
INSERT INTO Game Values(10,10,'M','Action');
INSERT INTO Game Values(11,12,'R','Action');
INSERT INTO Game Values(12,18,'E','Strategy');
INSERT INTO Game Values(13,11,'PG13','Fighting');
INSERT INTO Game Values(14,19,'PG13','Adventure');
INSERT INTO Game Values(15,8,'PG','Other');
INSERT INTO Game Values(16,17,'E','Other');
INSERT INTO Game Values(17,7,'E','Adventure');
INSERT INTO Game Values(18,16,'E','Strategy');
INSERT INTO Game Values(19,6,'R','Racing');
INSERT INTO Game Values(20,18,'PG13','Racing');
INSERT INTO Game Values(21,13,'M','Role-playing');
INSERT INTO Game Values(22,8,'M','Other');
INSERT INTO Game Values(23,20,'PG13','Fighting');
INSERT INTO Game Values(24,2,'R','Action');

-- Data for Console: ~ID, ~PublisherID, Color
INSERT INTO Console Values(25, 9, 'White');
INSERT INTO Console Values(26, 11, 'Grey');
INSERT INTO Console Values(27, 12, 'Black');
INSERT INTO Console Values(28, 7, 'White');
INSERT INTO Console Values(29, 9, 'White');
INSERT INTO Console Values(30, 11, 'Black');
INSERT INTO Console Values(31, 11, 'Blue');
INSERT INTO Console Values(32, 11, 'Black');
INSERT INTO Console Values(33, 9, 'Grey');
INSERT INTO Console Values(34, 9, 'Grey');
INSERT INTO Console Values(35, 7, 'Red');
INSERT INTO Console Values(36, 5, 'White');
INSERT INTO Console Values(37, 6, 'Grey');
INSERT INTO Console Values(38, 8, 'Black');
INSERT INTO Console Values(39, 12, 'Blue');
INSERT INTO Console Values(40, 13, 'Black');
INSERT INTO Console Values(41, 15, 'Gunmetal');
INSERT INTO Console Values(42, 14, 'Gunmetal');
INSERT INTO Console Values(43, 6, 'Black');
INSERT INTO Console Values(44, 18, 'White');
INSERT INTO Console Values(45, 19, 'Grey');

commit;

```

Query/Update script file.

```
/*  
Group 1: Samuel Solomon, Fritz Paz, Cameron Dolly, Logo Olagoke  
CMS 375 Phase 4  
Implementation  
Query/Update file  
*/
```

```
USE videoStore;
```

```
-- describe each schema
```

```
\! echo 'Console';  
describe Console;  
\! echo 'Customer';  
describe Customer;  
\! echo 'Employee';  
describe Employee;  
\! echo 'Game';  
describe Game;  
\! echo 'Item';  
describe Item;  
\! echo 'Order_t';  
describe Order_t;  
\! echo 'OrderItems';  
describe OrderItems;  
\! echo 'Person';  
describe Person;  
\! echo 'Publisher';  
describe Publisher;
```

```
-- print each table
```

```
\! echo 'Console';  
select *  
from Console;  
\! echo 'Customer';  
select *  
from Customer;  
\! echo 'Employee';  
select *  
from Employee;  
\! echo 'Game';  
select *
```

```

from Game;
\! echo 'Item';
select *
from Item;
\! echo 'Order_t';
select *
from Order_t;
\! echo 'OrderItems';
select *
from OrderItems
order by ordernumber;
\! echo 'Person';
select *
from Person;
\! echo 'Publisher';
select *
from Publisher;

-- What action games are in the store?
select item.Name as 'Action Games'
from Item, Game
where item.itemid=game.gameid
and category ='Action';

-- Is Minecraft available in the store?
select if(exists(
select Name
from Item
where name = 'Minecraft'),
'Yes',
'No')
as 'Minecraft in store';

-- Is GTA 5 available in the store?
select if(exists(
select Name
from Item
where name = 'GTA 5'),
'Yes',
'No')
as 'GTA 5 in store';

-- What games by Notch does the store have?
select item.Name as 'Founded by Notch'

```

```
from Item, Game, Publisher
where item.itemid = game.gameid
and game.gameid = publisher.publisherid
and founder = 'Notch';
```

```
-- How much games has Jenny Jo purchased in total?
select count(item.itemid) as 'Games bought by Jenny Jo'
from item, OrderItems, order_t, Person
where item.itemid = orderitems.itemid
and order_t.ordernumber = orderitems.ordernumber
and order_t.customerId = person.pid
and person.name = 'Jenny Jo';
```

```
-- What games are under 20$?
select Name
from Item
where Price <= 20 and ltype='g';
```

```
-- What is Alans salary?
select concat(employee.salary, '$ a year') as 'Alans salary'
from Person, Employee
where employee.epid=person.pid
and Name = 'Alan';
```

```
-- What games are rated R?
select item.Name as 'R-rated games'
from Item, Game
where item.itemid=game.gameid
and rating = 'R';
```

```
-- What year was Mclovin born?
select year(str_to_date(person.birthdate, '%m/%d/%Y')) as 'Birth year'
from person
where name = 'Mclovin';
```

```
-- How old is Mclovin?
select timestampdiff(year,str_to_date(person.birthdate, '%m/%d/%Y'),curdate()) as 'Age'
from person
where name = 'Mclovin';
```

```
-- Can Mclovin buy an R rated game?
select if(
(select timestampdiff(year,str_to_date(person.birthdate, '%m/%d/%Y'),curdate()))
from person
```

```
where name = 'Mclovin') > 18,  
'Yes',  
'No')  
as 'Is Mclovin 18+?';
```

```
-- Can Ethan Marc buy an R rated game?  
select if(  
(select timestampdiff(year,str_to_date(person.birthdate, '%m/%d/%Y'),curdate()))  
from person  
where name = 'Ethan Marc') > 18,  
'Yes',  
'No')  
as 'Is Ethan 18+?';
```

```
-- Show all orders from 2019  
select *  
from Order_t  
where (orderDate like '%2019');
```

```
-- Update PID 13s birthday  
update person  
set birthdate = '07/28/1971'  
where PID = 13;
```

```
-- Whats the ID for the PS3 V2?  
select itemid as 'PS3 V2 ID'  
from item  
where name = 'PS3 V2';
```

```
-- What items are in order number 19  
select item.name as 'Order 19 items'  
from item, OrderItems  
where item.itemid = orderitems.itemid  
and ordernumber = 19;
```

```
-- Who are the cashiers at the store?  
select name as 'Cashiers'  
from person,employee  
where person.pid = employee.epid  
and employee.JobTitle = 'Cashier';
```

```
-- Which customers need the gold discount?  
select name as 'Gold Members'  
from person,customer
```

```
where person.pid = customer.cpid
and customer.membership = 'Gold';
```

```
-- Which consoles come in white?
select Name
from item, console
where item.itemid = console.consoleid
and console.color = 'White';
```

```
-- What is the total for order 19?
select concat(sum(item.price), '$' ) as 'Total'
from item, OrderItems
where item.itemid = orderitems.itemid
and ordernumber = 19;
```

```
-- What did Karen Right buy in total on 11/30/2020
select item.name as 'Items bought'
from item, OrderItems, order_t, Person
where item.itemid = orderitems.itemid
and order_t.ordernumber = orderitems.ordernumber
and order_t.customerId = person.pid
and person.name = 'Karen Right'
and order_t.orderdate = '11/30/2020';
```

```
-- How much did Karen Right pay in total on 11/30/2020
select concat(sum(item.price), '$') as 'Karens total'
from item, OrderItems, order_t, Person
where item.itemid = orderitems.itemid
and order_t.ordernumber = orderitems.ordernumber
and order_t.customerId = person.pid
and person.name = 'Karen Right'
and order_t.orderdate = '11/30/2020';
```

```
-- Which employee checked out Sally Ride on 08/17/2021?
select distinct person.Name
from order_t, person
where person.pid = order_t.employeeid
and customerId = (
    select pid
    from person
    where name = 'Sally Ride'
)
and orderdate = '08/17/2020';
```


-- List all employees who make over 50k alphabetically and their salaries

```
select name, salary
from Person, Employee
where employee.epid=person.pid
and employee.salary > 50000
order by name;
```

-- How many people does each job have?

```
select jobTitle, count(pid)
from Person, Employee
where employee.epid=person.pid
group by jobTitle;
```

-- Whats the max salary for each job?

```
select max(salary), jobTitle
from Person, Employee
where employee.epid=person.pid
group by jobTitle;
```

-- List all consoles that having more than 3 of the same color in stock

```
select color, count(consoleid)
from Console
group by color
having count(consoleid) > 3;
```

-- How many customers are in each membership?

```
select Membership, count(cpid)
from Customer
group by membership;
```

-- List all adults alphabetically

```
select name, timestampdiff(year,str_to_date(person.birthdate, '%m/%d/%Y'),curdate()) as age
from person
where timestampdiff(year,str_to_date(person.birthdate, '%m/%d/%Y'),curdate()) > 17
order by name;
```

```
commit;
```

Screenshots of the schemas

Console

Field	Type	Null	Key	Default	Extra
ConsoleID	int	NO	PRI	NULL	
PublisherID	int	NO	MUL	NULL	
Color	varchar(15)	YES		NULL	

3 rows in set (0.00 sec)

Customer

Field	Type	Null	Key	Default	Extra
CPID	int	NO	PRI	NULL	
Membership	varchar(6)	YES		NULL	

2 rows in set (0.00 sec)

Employee

Field	Type	Null	Key	Default	Extra
EPID	int	NO	PRI	NULL	
JobTitle	varchar(30)	NO		NULL	
Salary	int	YES		NULL	

3 rows in set (0.00 sec)

Game

Field	Type	Null	Key	Default	Extra
GameID	int	NO	PRI	NULL	
PublisherID	int	NO	MUL	NULL	
Rating	varchar(4)	YES		NULL	
Category	varchar(12)	YES		NULL	

4 rows in set (0.00 sec)

Item

Field	Type	Null	Key	Default	Extra
ItemID	int	NO	PRI	NULL	
Name	varchar(24)	NO		NULL	
Price	int	NO		0	
CustomerRating	int	YES		NULL	
IType	char(1)	YES		NULL	

5 rows in set (0.00 sec)

Order_t

Field	Type	Null	Key	Default	Extra
OrderNumber	int	NO	PRI	NULL	
CustomerID	int	NO	MUL	NULL	
EmployeeID	int	NO	MUL	NULL	
OrderTime	int	YES		NULL	
OrderDate	varchar(10)	YES		NULL	

5 rows in set (0.01 sec)

OrderItems

Field	Type	Null	Key	Default	Extra
OrderNumber	int	NO	PRI	NULL	
ItemID	int	NO	PRI	NULL	

2 rows in set (0.00 sec)

Person

Field	Type	Null	Key	Default	Extra
PID	int	NO	PRI	NULL	
Name	varchar(40)	NO		NULL	
PhoneNumber	char(10)	YES		NULL	
Email	varchar(50)	YES		NULL	
Birthdate	varchar(10)	YES		NULL	
isEmployee	char(1)	YES		f	
isCustomer	char(1)	YES		f	

7 rows in set (0.00 sec)

Publisher

Field	Type	Null	Key	Default	Extra
PublisherID	int	NO	PRI	NULL	
Founder	varchar(40)	YES		NULL	
Headquarters	varchar(20)	YES		NULL	

3 rows in set (0.00 sec)

Screenshots of populated relations

Console

ConsoleID	PublisherID	Color
25	9	White
26	11	Grey
27	12	Black
28	7	White
29	9	White
30	11	Black
31	11	Blue
32	11	Black
33	9	Grey
34	9	Grey
35	7	Red
36	5	White
37	6	Grey
38	8	Black
39	12	Blue
40	13	Black
41	15	Gunmetal
42	14	Gunmetal
43	6	Black
44	18	White
45	19	Grey

21 rows in set (0.00 sec)

Customer

CPID	Membership
8	Gold
9	Gold
10	Gold
11	Silver
12	Gold
13	Bronze
14	Gold
15	Silver
16	Gold
17	Silver
18	Gold
19	Gold
20	Bronze
21	Gold
22	Bronze
23	Silver
33	Silver
34	Silver
35	Silver
36	Silver

20 rows in set (0.00 sec)

Employee

EPID	JobTitle	Salary
1	Programmer	80000
2	Cashier	20000
3	Cashier	20000
4	Programmer	97000
5	Cashier	12000
6	Manager	150000
7	Front end developer	100000
16	Programmer	80000
17	Cashier	33000
18	Cashier	11000
19	Programmer	95000
20	Cashier	15000
24	Cashier	20000
25	Cashier	20000
26	Programmer	97000
27	Cashier	12000
28	Manager	150000
29	Front end developer	100000
30	Programmer	80000
31	Cashier	33000
32	Cashier	11000

21 rows in set (0.00 sec)

Game

GameID	PublisherID	Rating	Category
1	6	PG13	Shooter
2	4	PG	Other
3	1	E	Shooter
4	11	M	Shooter
5	12	PG	Other
6	4	PG	Racing
7	5	PG13	Racing
8	3	PG	Role-playing
9	9	M	Shooter
10	10	M	Action
11	12	R	Action
12	18	E	Strategy
13	11	PG13	Fighting
14	19	PG13	Adventure
15	8	PG	Other
16	17	E	Other
17	7	E	Adventure
18	16	E	Strategy
19	6	R	Racing
20	18	PG13	Racing
21	13	M	Role-playing
22	8	M	Other
23	20	PG13	Fighting
24	2	R	Action

24 rows in set (0.00 sec)

Item				
ItemID	Name	Price	CustomerRating	IType
1	FIFA 14	90	5	g
2	GTA 5	20	4	g
3	FLY TO SPACE	100	2	g
4	FIFA 15	88	3	g
5	GTA Vice City	80	1	g
6	Top Eleven	100	5	g
7	FIFA 16	100	3	g
8	GTA Xan	50	4	g
9	FLY TO SPACE 2	120	4	g
10	FIFA 09	68	3	g
11	GTA Vice City 2	88	3	g
12	Football Manager	120	5	g
13	FIFA 04	99	5	g
14	GTA Fango	29	4	g
15	FLY TO SPACE 3	120	5	g
16	FIFA 05	84	3	g
17	GTA Vice Land	89	1	g
18	Top Boys	102	5	g
19	PES 10	110	3	g
20	GTA Xander 2	60	4	g
21	FLY TO SPACE 3	130	5	g
22	FIFA 19	68	3	g
23	GTA Ki City 2	89	3	g
24	Badass Cutie Birds	1	5	g
25	Xbox	400	5	c
26	Xbox M	450	4	c
27	PS3	490	5	c
28	PSP	50	4	c
29	PS5	500	2	c
30	PS 2	200	4	c
31	PS	100	5	c
32	Xbox X	400	5	c
33	Xbox M 2	450	4	c
34	PS3 V2	412	2	c
35	PSP Vango	80	4	c
36	PS5 Plus	520	1	c
37	PS 2 v2	220	4	c
38	PS Ki	100	5	c
39	Xbox Kinnect	400	5	c
40	Xbox Mang	450	4	c
41	PS3 2015	490	5	c
42	PSP 2000	200	2	c
43	PS5 Classic	500	3	c
44	PS 2 Retro	220	2	c
45	PS Django	100	5	c

45 rows in set (0.00 sec)

Order_t					
OrderNumber	CustomerID	EmployeeID	OrderTime	OrderDate	
1	8	1	1200	01/31/2019	
2	9	2	1400	02/31/2019	
3	10	3	800	03/01/2019	
4	11	4	100	03/15/2019	
5	12	6	1500	05/17/2019	
6	13	7	900	05/25/2019	
7	14	16	400	07/15/2019	
8	15	17	1100	08/17/2019	
9	21	18	800	11/25/2019	
10	22	19	2200	12/15/2019	
11	8	20	1000	12/15/2019	
12	11	5	100	05/15/2020	
13	8	1	1200	01/31/2021	
14	9	2	1400	02/31/2021	
15	10	3	800	03/01/2021	
16	11	4	100	03/15/2021	
17	12	6	1500	03/17/2021	
18	8	1	1200	01/31/2020	
19	9	2	1400	02/31/2020	
20	10	3	800	03/01/2020	
21	11	4	100	03/15/2020	
22	12	6	1500	05/17/2020	
23	13	7	900	05/25/2020	
24	14	16	400	07/15/2020	
25	15	17	1100	08/17/2020	
26	21	7	800	11/25/2020	
27	22	19	2200	12/15/2020	
28	8	2	1000	12/15/2020	
29	11	5	100	05/15/2020	
30	8	1	1200	01/31/2021	
31	9	2	1400	02/31/2021	
32	10	3	800	03/01/2021	
33	11	4	100	03/15/2021	
34	12	6	1500	03/17/2021	
35	8	1	1200	01/31/2020	
36	9	2	1400	02/31/2020	
37	10	3	800	03/01/2020	
38	11	4	100	03/15/2020	
39	12	6	1500	05/17/2020	
40	13	7	900	05/25/2020	
41	14	16	400	07/15/2020	
42	15	17	1100	08/17/2020	
43	21	18	800	11/25/2020	
44	22	19	2200	12/15/2020	
45	8	20	1000	12/15/2020	
46	11	5	100	05/15/2020	
47	8	1	1200	01/31/2021	

OrderItems	
OrderNumber	ItemID
1	3
2	5
3	7
4	10
4	13
5	1
6	3
7	11
8	4
9	6
10	22
11	24
12	30
13	4
14	12
15	19
16	11
17	5
18	1
19	8
19	10
19	15
20	13
21	31
22	19
23	40
24	35
25	2
26	15
27	6
28	27
29	29
30	9
31	43
32	45
33	5
34	26
35	42
36	16
37	27
38	19
39	24
40	18
41	6
42	3
43	43
44	10
45	27
46	11
47	21

Person						
PID	Name	PhoneNumber	Email	Birthdate	isEmployee	isCustomer
1	Logo Olagoke	9873458736	la@gmail.com	02/09/2000	t	f
2	Samuel Solomon	4071234567	ss@gmail.com	04/20/1996	t	f
3	Cameron Dolly	2392982938	Cdolly@yahoo.com	09/03/1998	t	f
4	Fritz Paz	2872092983	fpaz@yahoo.com	03/06/2000	t	f
5	Layo Olagoke	9273450736	layo@gmail.com	03/12/2000	t	f
6	Cameron Ponce	239598898	Cponce@yahoo.com	01/03/2003	t	f
7	Florence Laz	1432092921	flaz@outlook.com	03/06/2004	t	f
8	John Doe	4071112222	jdoe@email.com	03/06/1950	f	t
9	Jenny Jo	3671116368	jjo@email.com	09/15/1999	f	t
10	Bob Buidar	1213456243	bbuilder@email.com	07/30/1967	f	t
11	Mickey Mouse	8905621111	mmouse@email.com	10/30/2001	f	t
12	Ryan Gosling	8731237676	rgos@email.com	12/12/1983	f	t
13	Elon Musk	3030012255	emusk@email.com	07/28/1971	f	t
14	John Deer	4321112222	jdeer@email.com	03/05/1950	f	t
15	Sally Ride	7775261432	sride@email.com	11/22/1954	f	t
16	Alice Grace	1212341098	agrace@email.com	05/01/1998	t	t
17	Ron Gold	4076224132	ronlovesbeth@email.com	07/01/1971	t	t
18	Beth Gold	4076224132	bethlovesron@email.com	07/22/1971	t	t
19	Ethan Marc	4123215566	ethanrox@email.com	04/01/2009	t	t
20	Alan	NULL	NULL	01/01/1922	t	t
21	Karen Right	NULL	karenRIGHT@email.com	12/03/1977	f	t
22	Mary Jane	5094201943	mj@email.com	05/20/1995	f	t
23	Mary Doe	4071651122	mdoe@email.com	02/22/2002	f	t
24	Bob Ross	1231118765	bross@email.com	03/06/1944	t	f
25	Bob Ross jr	4012231534	brossjr@mail.com	03/06/1984	t	f
26	Jane Good	8123321654	janeG@email.com	01/26/1974	t	f
27	George Noble	2143546677	gnoble@mail.com	03/06/1933	t	f
28	Chris Wild	NULL	chrisw@mail.com	02/17/1984	t	f
29	Marge Simpson	8089765423	marges@mail.com	11/16/1974	t	f
30	Bob Chris	2143546677	bobChris@mail.com	12/25/1983	t	f
31	Shawn Grey	NULL	shawnnnn@mail.com	12/17/1984	t	f
32	Jenny W	8089765423	jennyrocks@mail.com	11/01/1984	t	f
33	Sierra Doe	4071734382	sdoe@gmail.com	01/17/1998	f	t
34	Mary Women	4072856183	NULL	07/02/1955	f	t
35	Vincent Adultman	4076548521	vadultman@realmail.com	08/12/1964	f	t
36	Mclovin	4079843578	mclovin@hawaii.com	06/03/1981	f	t

36 rows in set (0.00 sec)

Publisher

PublisherID	Founder	Headquarters
1	Take 2	Los Angeles, CA
2	Notch	Orlando, FL
3	Linus Torvald	Helsinki, FI
4	Notch	Stockholm, SW
5	EA Sports	Redwood City, CA
6	Ubisoft	Montreuil, FR
7	Tencent Games	Shenzhen, CH
8	Nintendo	Kyoto, JP
9	Microsoft	Redmond, WA
10	Rockstar Games	New York, NY
11	Sony Entertainment	Tokyo, JP
12	Notch	Sunnyvale, CA
13	Square Enix	Kyoto, JP
14	505 Games	Milan, IT
15	Slitherine Strategies	London, UK
16	Take 2	Denver, CO
17	Bandai Namco	Okinawa, JP
18	Blizzard	Los Angeles, CA
19	SEGA	Tokyo, JP
20	Riot Games	San Diego, CA

20 rows in set (0.00 sec)

Screenshots of queries/updates.

What action games are in the store?

```
-----  
select item.Name as 'Action Games'  
from Item, Game  
where item.itemid=game.gameid  
and category ='Action'  
-----
```

```
+-----+  
| Action Games |  
+-----+  
| FIFA 09      |  
| GTA Vice City 2 |  
| Badass Cutie Birds |  
+-----+
```

3 rows in set (0.00 sec)

Is Minecraft available in the store?

```
-----  
select if(exists(  
select Name  
from Item  
where name = 'Minecraft'),  
'Yes',  
'No')  
as 'Minecraft in store'  
-----
```

```
+-----+  
| Minecraft in store |  
+-----+  
| No                  |  
+-----+
```

1 row in set (0.00 sec)

Is GTA 5 available in the store?

```
-----  
select if(exists(  
select Name  
from Item  
where name = 'GTA 5'),  
'Yes',  
'No')  
as 'GTA 5 in store'  
-----
```

```
+-----+  
| GTA 5 in store |  
+-----+  
| Yes             |  
+-----+
```

1 row in set (0.00 sec)

What games by Notch does the store have?

```
-----  
select item.Name as 'Founded by Notch'  
from Item, Game, Publisher  
where item.itemid = game.gameid  
and game.gameid = publisher.publisherid  
and founder = 'Notch'  
-----
```

```
+-----+  
| Founded by Notch |  
+-----+  
| GTA 5             |  
| FIFA 15           |  
| Football Manager  |  
+-----+  
3 rows in set (0.00 sec)
```

How much games has Jenny Jo purchased in total?

```
-----  
select count(item.itemid) as 'Games bought by Jenny Jo'  
from item, OrderItems, order_t, Person  
where item.itemid = orderitems.itemid  
and order_t.ordernumber = orderitems.ordernumber  
and order_t.customerId = person.pid  
and person.name = 'Jenny Jo'  
-----
```

```
+-----+  
| Games bought by Jenny Jo |  
+-----+  
|                        19 |  
+-----+  
1 row in set (0.00 sec)
```

What games are under 20\$?

```
select Name
from Item
where Price <= 20 and Itype='g'
```

```
+-----+
| Name          |
+-----+
| GTA 5          |
| Badass Cutie Birds |
+-----+
2 rows in set (0.00 sec)
```

What is Alans salary?

```
select concat(employee.salary, '$ a year') as 'Alans salary'
from Person, Employee
where employee.epid=person.pid
and Name = 'Alan'
```

```
+-----+
| Alans salary  |
+-----+
| 15000$ a year |
+-----+
1 row in set (0.00 sec)
```

What games are rated R?

```
-----  
select item.Name as 'R-rated games'  
from Item, Game  
where item.itemid=game.gameid  
and rating = 'R'  
-----
```

```
+-----+  
| R-rated games |  
+-----+  
| GTA Vice City 2 |  
| PES 10 |  
| Badass Cutie Birds |  
+-----+
```

3 rows in set (0.00 sec)

What year was Mclovin born?

```
-----  
select year(str_to_date(person.birthdate, '%m/%d/%Y')) as 'Birth year'  
from person  
where name = 'Mclovin'  
-----
```

```
+-----+  
| Birth year |  
+-----+  
| 1981 |  
+-----+
```

1 row in set (0.00 sec)

How old is Mclovin?

```
-----  
select timestampdiff(year,str_to_date(person.birthdate, '%m/%d/%Y'),curdate()) as 'Age'  
from person  
where name = 'Mclovin'  
-----
```

```
+-----+  
| Age |  
+-----+  
| 39 |  
+-----+
```

1 row in set (0.00 sec)

Can Mclovin buy an R rated game?

```
-----  
select if(  
(select timestampdiff(year,str_to_date(person.birthdate, '%m/%d/%Y'),curdate())  
from person  
where name = 'Mclovin') > 18,  
'Yes',  
'No')  
as 'Is Mclovin 18+?'  
-----
```

```
+-----+  
| Is Mclovin 18+? |  
+-----+  
| Yes             |  
+-----+  
1 row in set (0.00 sec)
```

Can Ethan Marc buy an R rated game?

```
-----  
select if(  
(select timestampdiff(year,str_to_date(person.birthdate, '%m/%d/%Y'),curdate())  
from person  
where name = 'Ethan Marc') > 18,  
'Yes',  
'No')  
as 'Is Ethan 18+?'  
-----
```

```
+-----+  
| Is Ethan 18+? |  
+-----+  
| No            |  
+-----+  
1 row in set (0.00 sec)
```

Show all orders from 2019

```
-----  
select *  
from Order_t  
where (orderDate like '%2019')  
-----
```

OrderNumber	CustomerID	EmployeeID	OrderTime	OrderDate
1	8	1	1200	01/31/2019
2	9	2	1400	02/31/2019
3	10	3	800	03/01/2019
4	11	4	100	03/15/2019
5	12	6	1500	05/17/2019
6	13	7	900	05/25/2019
7	14	16	400	07/15/2019
8	15	17	1100	08/17/2019
9	21	18	800	11/25/2019
10	22	19	2200	12/15/2019
11	8	20	1000	12/15/2019

11 rows in set (0.00 sec)

Update PID 13s birthday

```
-----  
update person  
set birthdate = '07/28/1971'  
where PID = 13  
-----
```

Query OK, 0 rows affected (0.00 sec)
Rows matched: 1 Changed: 0 Warnings: 0

Whats the ID for the PS3 V2?

```
-----  
select itemid as 'PS3 V2 ID'  
from item  
where name = 'PS3 V2'  
-----
```

PS3 V2 ID
34

1 row in set (0.00 sec)

What items are in order number 19?

```
select item.name as 'Order 19 items'
from item, OrderItems
where item.itemid = orderitems.itemid
and ordernumber = 19
```

Order 19 items
GTA Xan
FIFA 09
FLY TO SPACE 3

3 rows in set (0.00 sec)

Who are the cashiers at the store?

```
select name as 'Cashiers'
from person,employee
where person.pid = employee.epid
and employee.JobTitle = 'Cashier'
```

Cashiers
Samuel Solomon
Cameron Dolly
Layo Olagoke
Ron Gold
Beth Gold
Alan
Bob Ross
Bob Ross jr
George Noble
Shawn Grey
Jenny W

11 rows in set (0.00 sec)

Which customers need the gold discount?

```
-----  
select name as 'Gold Members'  
from person, customer  
where person.pid = customer.cpid  
and customer.membership = 'Gold'  
-----
```

```
+-----+  
| Gold Members |  
+-----+  
| John Doe     |  
| Jenny Jo     |  
| Bob Buidier  |  
| Ryan Gosling |  
| John Deer    |  
| Alice Grace  |  
| Beth Gold    |  
| Ethan Marc   |  
| Karen Right  |  
+-----+
```

9 rows in set (0.00 sec)

Which consoles come in white?

```
-----  
select Name  
from item, console  
where item.itemid = console.consoleid  
and console.color = 'White'  
-----
```

```
+-----+  
| Name      |  
+-----+  
| Xbox      |  
| PSP       |  
| PS5       |  
| PS5 Plus  |  
| PS 2 Retro |  
+-----+
```

5 rows in set (0.00 sec)

What is the total for order 19?

```
-----  
select concat(sum(item.price), '$' ) as 'Total'  
from item, OrderItems  
where item.itemid = orderitems.itemid  
and ordernumber = 19  
-----
```

```
+-----+  
| Total |  
+-----+  
| 238$  |  
+-----+
```

1 row in set (0.00 sec)

What did Karen Right buy in total on 11/30/2020?

```
-----  
select item.name as 'Items bought'  
from item, OrderItems, order_t, Person  
where item.itemid = orderitems.itemid  
and order_t.ordernumber = orderitems.ordernumber  
and order_t.customerId = person.pid  
and person.name = 'Karen Right'  
and order_t.orderdate = '11/30/2020'  
-----
```

Items bought
FIFA 14
GTA 5
GTA Vice Land
PS Ki

4 rows in set (0.00 sec)

How much did Karen Right pay in total on 11/30/2020?

```
-----  
select concat(sum(item.price), '$') as 'Karens total'  
from item, OrderItems, order_t, Person  
where item.itemid = orderitems.itemid  
and order_t.ordernumber = orderitems.ordernumber  
and order_t.customerId = person.pid  
and person.name = 'Karen Right'  
and order_t.orderdate = '11/30/2020'  
-----
```

Karens total
299\$

1 row in set (0.00 sec)

Which employee checked out Sally Ride on 08/17/2021?

```
-----  
select distinct person.Name  
from order_t, person  
where person.pid = order_t.employeeid  
and customerId = (  
    select pid  
    from person  
    where name = 'Sally Ride'  
)  
and orderdate = '08/17/2020'  
-----
```

```
+-----+  
| Name |  
+-----+  
| Ron Gold |  
+-----+  
1 row in set (0.00 sec)
```

List all employees who make over 50k alphabetically and their salaries

```
-----  
select name, salary  
from Person, Employee  
where employee.epid=person.pid  
and employee.salary > 50000  
order by name  
-----
```

```
+-----+-----+  
| name      | salary |  
+-----+-----+  
| Alice Grace | 80000 |  
| Bob Chris  | 80000 |  
| Cameron Ponce | 150000 |  
| Chris Wild | 150000 |  
| Ethan Marc  | 95000 |  
| Florence Laz | 100000 |  
| Fritz Paz   | 97000 |  
| Jane Good   | 97000 |  
| Logo Olagoke | 80000 |  
| Marge Simpson | 100000 |  
+-----+-----+  
10 rows in set (0.00 sec)
```

List all adults alphabetically

```
-----  
select name, timestampdiff(year,str_to_date(person.birthdate, '%m/%d/%Y'),curdate()) as age  
from person  
where timestampdiff(year,str_to_date(person.birthdate, '%m/%d/%Y'),curdate()) > 17  
order by name  
-----
```

name	age
Alan	99
Alice Grace	22
Beth Gold	49
Bob Buidar	53
Bob Chris	37
Bob Ross	77
Bob Ross jr	37
Cameron Dolly	22
Cameron Ponce	18
Chris Wild	37
Elon Musk	49
Fritz Paz	21
George Noble	88
Jane Good	47
Jenny Jo	21
Jenny W	36
John Deer	71
John Doe	71
Karen Right	43
Layo Olagoke	21
Logo Olagoke	21
Marge Simpson	46
Mary Doe	19
Mary Jane	25
Mary Women	65
Mclovin	39
Mickey Mouse	19
Ron Gold	49
Ryan Gosling	37
Sally Ride	66
Samuel Solomon	25
Shawn Grey	36
Sierra Doe	23
Vincent Adultman	56

34 rows in set (0.00 sec)

How many people does each job have?

```
-----  
select jobTitle, count(pid)  
from Person, Employee  
where employee.epid=person.pid  
group by jobTitle  
-----
```

jobTitle	count(pid)
Programmer	6
Cashier	11
Manager	2
Front end developer	2

4 rows in set (0.00 sec)

Whats the max salary for each job?

```
-----  
select max(salary), jobTitle  
from Person, Employee  
where employee.epid=person.pid  
group by jobTitle  
-----
```

max(salary)	jobTitle
97000	Programmer
33000	Cashier
150000	Manager
100000	Front end developer

4 rows in set (0.00 sec)

List all consoles that having more than 3 of the same color in stock

```
-----  
select color, count(consoleid)  
from Console  
group by color  
having count(consoleid) > 3  
-----
```

color	count(consoleid)
White	5
Grey	5
Black	6

3 rows in set (0.00 sec)

How many customers are in each membership?

```
select Membership, count(cpid)
from Customer
group by membership
```

+-----+-----+	
Membership	count(cpid)
+-----+-----+	
Gold	9
Silver	8
Bronze	3
+-----+-----+	

3 rows in set (0.00 sec)

Issues

Moving from design to implementation, we noticed a few minor issues. Some names in our schemas did not accurately describe attributes, so they were switched. We realized that the consoles also needed to have a publisher ID, so we implemented and connected those as well. Overall, our schemas provided us with a good base and not too many issues occurred.