***DATABASE (Game Center)***

**CREATE TABLES DDL**

CREATE TABLE game

(

game\_id serial PRIMARY KEY,

title varchar(100) NOT NULL,

genre varchar(50) NOT NULL,

rating varchar(50) NOT NULL,

publisher varchar(50) NOT NULL,

price numeric(5,2) NOT NULL,

release\_year integer NOT NULL,

max\_players integer NOT NULL

);

CREATE TABLE customer

(

customer\_id serial PRIMARY KEY,

first\_name varchar(50) NOT NULL,

middle\_name varchar(50),

last\_name varchar(50) NOT NULL,

email varchar(100) NOT NULL,

customer\_phone varchar(50) NOT NULL,

address varchar(50) NOT NULL,

zip\_code varchar(50) NOT NULL

);

CREATE TABLE retail\_store

(

store\_id serial PRIMARY KEY,

store\_name varchar(100) NOT NULL,

store\_address varchar(50),

store\_zip\_code varchar(50),

store\_phone varchar(50) NOT NULL

);

CREATE TABLE game\_inventory

(

gameinventory\_id serial PRIMARY KEY,

game\_id int REFERENCES game(game\_id) NOT NULL,

store\_id int REFERENCES retail\_store(store\_id) NOT NULL

);

CREATE TABLE game\_order

(

order\_id serial PRIMARY KEY,

gameinventory\_id int REFERENCES game\_inventory(gameinventory\_id) NOT NULL,

customer\_id int REFERENCES customer(customer\_id) NOT NULL,

purchase\_date timestamp without time zone,

pick\_up\_date timestamp without time zone

);

**INSERT DATA DDL**

Select \* from game

INSERT INTO game(title,genre,rating,publisher,price,release\_year,max\_players) VALUES ('Super Mario Galaxy','Action','E','Nintendo',19.99,2007,2);

INSERT INTO game(title,genre,rating,publisher,price,release\_year,max\_players) VALUES ('Minecraft','Sandbox','E 10+','Mojang',25.99,2011,4);

INSERT INTO game(title,genre,rating,publisher,price,release\_year,max\_players) VALUES ('Tetris','Tile-matching','E','Nintendo',4.99,1984,2);

INSERT INTO game(title,genre,rating,publisher,price,release\_year,max\_players) VALUES ('Bioshock','Action-adventure','M','2K Games',19.99,2007,1);

INSERT INTO game(title,genre,rating,publisher,price,release\_year,max\_players) VALUES ('Doom','First-person shooter','M','id Software',5.99,1993,4);

INSERT INTO game(title,genre,rating,publisher,price,release\_year,max\_players) VALUES ('Fallout 3','action role-playing','E','Bethesda Softworks',21.99,2008,3);

INSERT INTO game(title,genre,rating,publisher,price,release\_year,max\_players) VALUES ('Super Mario Maker','Level editor','E','Nintendo',59.99,2015,4);

INSERT INTO game(title,genre,rating,publisher,price,release\_year,max\_players) VALUES ('Mario Kart DS','Racing','E','Nintendo',20.00,2005,4);

INSERT INTO game(title,genre,rating,publisher,price,release\_year,max\_players) VALUES ('Call of Duty 2','First-person shooter','T','Activision',25.99,2005,4);

INSERT INTO game(title,genre,rating,publisher,price,release\_year,max\_players) VALUES ('Sonic Rush','Platform','E','Sega',13.99,2005,2);

INSERT INTO game(title,genre,rating,publisher,price,release\_year,max\_players) VALUES ('Madden NFL 06','Sports','E','EA Sports',17.99,2005,2);

INSERT INTO game(title,genre,rating,publisher,price,release\_year,max\_players) VALUES ('The Sims 2',' strategic life simulation','T','Electronic Arts',20.00,2004,1);

INSERT INTO game(title,genre,rating,publisher,price,release\_year,max\_players) VALUES ('NBA 2K21','Sports','E','2K Games',23.99,2020,2);

INSERT INTO game(title,genre,rating,publisher,price,release\_year,max\_players) VALUES ('Spyro: Shadow Legacy','Role-playing','E','Vivendi Universal Games',15.99,1984,1);

INSERT INTO game(title,genre,rating,publisher,price,release\_year,max\_players) VALUES ('Pokémon Diamond','Role-playing','E','Nintendo',59.99,2006,1);

INSERT INTO game(title,genre,rating,publisher,price,release\_year,max\_players) VALUES ('Call of Duty 3','First-person shooter','T','Activision',22.99,2006,4);

INSERT INTO game(title,genre,rating,publisher,price,release\_year,max\_players) VALUES ('Yoshi Island DS','Platform','E','Nintendo',30.99,2006,1);

INSERT INTO game(title,genre,rating,publisher,price,release\_year,max\_players) VALUES ('Final Fantasy III','Role-playing','E 10+','Square',10.00,1990,2);

INSERT INTO game(title,genre,rating,publisher,price,release\_year,max\_players) VALUES ('Sonic Rivals','Racing','E','Sega',15.00,2006,2);

INSERT INTO game(title,genre,rating,publisher,price,release\_year,max\_players) VALUES ('Pokémon Pearl','Role-playing','E','Nintendo',59.99,2006,1);

select \* from retail\_store

INSERT INTO retail\_store(store\_name,store\_address,store\_zip\_code,store\_phone) VALUES ('Target','15700 Shawnee Mission Pkwy','66217','+19139628222');

INSERT INTO retail\_store(store\_name,store\_address,store\_zip\_code,store\_phone) VALUES ('Walmart','5150 Roe Blvd','66205','+19132368898');

INSERT INTO retail\_store(store\_name,store\_phone) VALUES ('Amazon','1-888-280-4331');

INSERT INTO retail\_store(store\_name,store\_address,store\_zip\_code,store\_phone) VALUES ('Best Buy','9301 Quivira Rd','66215','+19138940055');

INSERT INTO retail\_store(store\_name,store\_address,store\_zip\_code,store\_phone) VALUES ('GameStop','5016 Roe Blvd','66205','+19136773343');

select \* from customer

INSERT INTO customer(first\_name,middle\_name,last\_name,email,customer\_phone,address,zip\_code) VALUES('Andres','Ignacio','Garcia','GarciaAI@hawks.rockhurst.edu','913-000-0000','1334 E 53rd St','64110');

INSERT INTO customer(first\_name,last\_name,email,customer\_phone,address,zip\_code) VALUES('Eric','Garcia','GarciE@hawks.rockhurst.edu','913-672-7826','1334 E 53rd St','64110');

INSERT INTO customer(first\_name,last\_name,email,customer\_phone,address,zip\_code) VALUES('John','Doe','DoeJohn@hawks.rockhurst.edu','913-281-2817','1321 Rockhurst Rd','64110');

INSERT INTO customer(first\_name,middle\_name,last\_name,email,customer\_phone,address,zip\_code) VALUES('Adam','John','Locke','LockeAJ@hawks.rockhurst.edu','913-189-2921','5314 Forest Ave','64110');

INSERT INTO customer(first\_name,last\_name,email,customer\_phone,address,zip\_code) VALUES('Louis','Miguel','louisM@hawks.rockhurst.edu','913-890-1267','1321 Rockhurst Rd','64110');

Select \* from game\_inventory

INSERT INTO game\_inventory (game\_id,store\_id) VALUES(12,4);

INSERT INTO game\_inventory (game\_id,store\_id) VALUES(13,1);

INSERT INTO game\_inventory (game\_id,store\_id) VALUES(1,1);

INSERT INTO game\_inventory (game\_id,store\_id) VALUES(3,3);

INSERT INTO game\_inventory (game\_id,store\_id) VALUES(5,5);

INSERT INTO game\_inventory (game\_id,store\_id) VALUES(2,2);

INSERT INTO game\_inventory (game\_id,store\_id) VALUES(6,1);

INSERT INTO game\_inventory (game\_id,store\_id) VALUES(7,2);

INSERT INTO game\_inventory (game\_id,store\_id) VALUES(8,3);

INSERT INTO game\_inventory (game\_id,store\_id) VALUES(9,2);

INSERT INTO game\_inventory (game\_id,store\_id) VALUES(4,4);

INSERT INTO game\_inventory (game\_id,store\_id) VALUES(10,1);

INSERT INTO game\_inventory (game\_id,store\_id) VALUES(11,3);

INSERT INTO game\_inventory (game\_id,store\_id) VALUES(18,2);

INSERT INTO game\_inventory (game\_id,store\_id) VALUES(19,5);

INSERT INTO game\_inventory (game\_id,store\_id) VALUES(14,2);

INSERT INTO game\_inventory (game\_id,store\_id) VALUES(15,1);

INSERT INTO game\_inventory (game\_id,store\_id) VALUES(16,4);

INSERT INTO game\_inventory (game\_id,store\_id) VALUES(17,3);

INSERT INTO game\_inventory (game\_id,store\_id) VALUES(20,5);

select \* from game\_order

INSERT INTO game\_order (gameinventory\_id,customer\_id,purchase\_date) VALUES (5,2,'2021-02-19 10:22:54');

INSERT INTO game\_order (gameinventory\_id,customer\_id,purchase\_date,pick\_up\_date) VALUES (3,3,'2021-02-19 10:23:54','2021-02-22 8:43:24');

INSERT INTO game\_order (gameinventory\_id,customer\_id,purchase\_date,pick\_up\_date) VALUES (9,1,'2021-04-19 10:23:54','2021-04-23 9:23:14');

INSERT INTO game\_order (gameinventory\_id,customer\_id,purchase\_date) VALUES (7,4,'2021-10-13 10:23:54');

INSERT INTO game\_order (gameinventory\_id,customer\_id,purchase\_date,pick\_up\_date) VALUES (10,5,'2021-10-19 10:23:54','2021-10-25 7:45:37');

INSERT INTO game\_order (gameinventory\_id,customer\_id,purchase\_date) VALUES (17,2,'2021-10-15 10:23:54');

INSERT INTO game\_order (gameinventory\_id,customer\_id,purchase\_date,pick\_up\_date) VALUES (20,3,'2021-04-15 10:23:54','2021-04-19 8:47:54');

**UPDATE DATA**

select \* from game

select \* from game\_inventory

select \* from game\_order

select \* from retail\_store

select \* from customer

UPDATE game SET price = 15.99 WHERE game\_id=1;

UPDATE game\_inventory SET game\_id = 7 WHERE gameinventory\_id=1;

UPDATE game\_order SET pick\_up\_date ='2021-02-20 8:32:24' WHERE order\_id=1;

UPDATE retail\_store SET store\_address = '3601 Enterprise Dr' WHERE store\_id=3;

UPDATE retail\_store SET store\_zip\_code = '64129' WHERE store\_id=3;

UPDATE customer SET customer\_phone = '913-123-4567' WHERE customer\_id=1;

**DELETE DATA**

select \* from game

select \* from game\_inventory

select \* from game\_order

select \* from retail\_store

select \* from customer

DELETE from game\_inventory WHERE gameinventory\_id=1 and game\_id=7 and store\_id=4

DELETE from game\_order WHERE pick\_up\_date IS NULL

DELETE from game\_order WHERE customer\_id=1

DELETE from customer WHERE customer\_id=1 and first\_name='Andres'

DELETE from game WHERE game\_id =12

DELETE from game\_inventory WHERE store\_id=4

DELETE from retail\_store WHERE store\_id=4

**REPORT QUERY** *(Data reported is data after updating and deletion done above)*

SELECT

retail\_store.store\_name as Game\_Store,

game\_order.order\_id as Order\_Number,

game.price as Price\_Of\_Game\_Sold,

SUM(game.price) as Total\_Sales

FROM game

JOIN game\_inventory ON game\_inventory.game\_id=game.game\_id

JOIN game\_order ON game\_order.gameinventory\_id=game\_inventory.gameinventory\_id

JOIN retail\_store ON retail\_store.store\_id=game\_inventory.store\_id

GROUP BY ROLLUP(Game\_Store,Order\_Number,Price\_Of\_Game\_Sold)