**DDL:**

CREATE TABLE lgs

(

storeID CHAR(15) CONSTRAINT PK\_storeID PRIMARY KEY CONSTRAINT lgs\_nn\_storeID NOT NULL,

storeName VARCHAR2(30)CONSTRAINT lgs\_nn\_storeName NOT NULL,

phoneNumber CHAR(11) CONSTRAINT lgs\_nn\_phoneNumber NOT NULL,

addressStreet VARCHAR2(30) CONSTRAINT lgs\_nn\_addressStreet NOT NULL,

addressCity VARCHAR2(30) CONSTRAINT lgs\_nn\_addressCity NOT NULL,

addressState VARCHAR2(30) CONSTRAINT lgs\_nn\_addressState NOT NULL,

addressZipCode CHAR(5) CONSTRAINT lgs\_nn\_addressZipCode NOT NULL

)

CREATE TABLE Product

(

SKUNumber CHAR(30) CONSTRAINT PK\_SKUNumber PRIMARY KEY CONSTRAINT Product\_nn\_SKUNumber NOT NULL,

quantity NUMBER(4) CONSTRAINT Product\_nn\_quantity NOT NULL,

price NUMBER(6,2) CONSTRAINT Product\_nn\_price NOT NULL,

isBook NUMBER(1) CONSTRAINT Product\_nn\_isBook NOT NULL CONSTRAINT Product\_ck\_isBook CHECK (isBook IN (1,0)),

title VARCHAR2(50),

author VARCHAR2(100),

edition VARCHAR2(4),

isTrinket NUMBER(1) CONSTRAINT Product\_nn\_isTrinket NOT NULL CONSTRAINT Product\_ck\_isTrinket CHECK (isTrinket IN (1,0)),

trinketName VARCHAR2(100),

trinketSize NUMBER(4,2),

CONSTRAINT chk\_book CHECK ((isTrinket = '1' AND isBook = '0') OR (isTrinket = '0' AND isBook = '1'))

)

CREATE TABLE CommunityMember

(

memberID CHAR(20) CONSTRAINT PK\_memberID PRIMARY KEY CONSTRAINT CommunityMember\_nn\_memberID NOT NULL,

firstName VARCHAR2(50) CONSTRAINT CommunityMember\_nn\_firstName NOT NULL,

lastName VARCHAR2(50) CONSTRAINT CommunityMember\_nn\_lastName NOT NULL,

phoneNumber CHAR(11) CONSTRAINT CommunityMember\_nn\_phoneNumber NOT NULL,

addressStreet VARCHAR2(30) CONSTRAINT CommunityMember\_nn\_addressStreet NOT NULL,

addressCity VARCHAR2(30) CONSTRAINT CommunityMember\_nn\_addressCity NOT NULL,

addressState VARCHAR2(30)CONSTRAINT CommunityMember\_nn\_addressState NOT NULL,

addressZipCode VARCHAR2(5) CONSTRAINT CommunityMember\_nn\_addressZipCode NOT NULL

)

CREATE TABLE SponsorshipCompany

(

companyID CHAR(25) CONSTRAINT PK\_companyID PRIMARY KEY CONSTRAINT SponsorshipCompany\_nn\_companyID NOT NULL,

companyName VARCHAR2(30) CONSTRAINT SponsorshipCompany\_nn\_companyName NOT NULL,

phoneNumber CHAR(11) CONSTRAINT SponsorshipCompany\_nn\_phoneNumber NOT NULL,

emailAddress VARCHAR2(100) CONSTRAINT SponsorshipCompany\_nn\_emailAddress NOT NULL,

addressStreet VARCHAR2(30) CONSTRAINT SponsorshipCompany\_nn\_addressStreet NOT NULL,

addressCity VARCHAR2(30) CONSTRAINT SponsorshipCompany\_nn\_addressCity NOT NULL,

addressState VARCHAR2(30) CONSTRAINT SponsorshipCompany\_nn\_addressState NOT NULL,

addressZipCode CHAR(5) CONSTRAINT SponsorshipCompany\_nn\_addressZipCode NOT NULL

)

CREATE TABLE Convention

(

conventionID CHAR(10) CONSTRAINT PK\_conventionID PRIMARY KEY CONSTRAINT Convention\_nn\_conventionID NOT NULL ,

eventName VARCHAR2(100) CONSTRAINT Convention\_nn\_eventName NOT NULL,

eventDate DATE CONSTRAINT Convention\_nn\_eventDate NOT NULL,

eventLocation CHAR(15)CONSTRAINT Convention\_nn\_eventLocation NOT NULL CONSTRAINT Convention\_fk\_eventLocation REFERENCES lgs(storeID),

sponsor CHAR(25) CONSTRAINT Convention\_nn\_sponsor NOT NULL CONSTRAINT Convention\_fk\_sponsor REFERENCES SponsorshipCompany(companyID)

)

CREATE TABLE Registration

(

event CHAR(10)CONSTRAINT Registration\_nn\_event NOT NULL CONSTRAINT Registration\_fk\_event REFERENCES Convention(conventionID),

attendee CHAR(20) CONSTRAINT Registration\_nn\_attendee NOT NULL CONSTRAINT Registration\_fk\_attendee REFERENCES CommunityMember(memberID),

CONSTRAINT pk\_Registration PRIMARY KEY(event, attendee)

)

CREATE TABLE Sale

(

location CHAR(15) CONSTRAINT Sale\_nn\_location NOT NULL CONSTRAINT Sale\_fk\_location REFERENCES LGS(storeID),

product CHAR(30) CONSTRAINT PK\_product PRIMARY KEY CONSTRAINT Sale\_nn\_product NOT NULL CONSTRAINT Sale\_fk\_product REFERENCES Product(SKUNumber),

consumer CHAR(20) CONSTRAINT Sale\_nn\_consumer NOT NULL CONSTRAINT Sale\_fk\_consumer REFERENCES CommunityMember(memberID)

)

CREATE TABLE Vendor

(

vendorID CHAR(5) CONSTRAINT PK\_vendorID PRIMARY KEY CONSTRAINT Vendor\_nn\_vendorID NOT NULL,

vendorName VARCHAR2(30) CONSTRAINT Vendor\_nn\_vendorName NOT NULL,

phoneNumber CHAR(11) CONSTRAINT Vendor\_nn\_phoneNumber NOT NULL,

merchandiseType VARCHAR2(100) CONSTRAINT Vendor\_nn\_merchandiseType NOT NULL,

marketPlace CHAR(10)CONSTRAINT Vendor\_nn\_marketPlace NOT NULL CONSTRAINT Vendor\_fk\_marketPlace REFERENCES Convention(conventionID)

)

**7. DML:**

INSERT INTO LGS

VALUES ('123456789023456','BigComics', '12674547751', '10 Big Road', 'Calais','Maine','04619');

INSERT INTO LGS

VALUES ('076543216789453','NerdTopia','17147777777','11 Small Stroll Way', 'Santa Ana', 'California', '92707');

INSERT INTO LGS

VALUES ('045362178904563', 'TinyHandsComics', '12024561111', '1100 S Ocean Blvd', 'Palm Beach', 'Florida', '33480');

INSERT INTO CommunityMember

VALUES ('01478520369872768965', 'Bob', 'Saint', '12075556789', '15 Elm St', 'Portland', 'Maine', '04101');

INSERT INTO CommunityMember

VALUES ('96453157789952157890', 'William', 'Waring', '15853216687', '607 S street', 'Philadelphia', 'Pennsylvania', '19147');

INSERT INTO CommunityMember

VALUES ('75369514896317625894', 'Lance', 'Armstrong', '12676632849', '2144 S Birch', 'San Diego', 'California', '22434');

INSERT INTO SponsorshipCompany

VALUES ('9854710236589745698015403', 'BigHandsInc', '[18675309555','handsarentsmall@gmail.com','235](about:blank) Flat Rd', 'Eastport', 'Maine', '04694');

INSERT INTO SponsorshipCompany

VALUES ('9078654321345678905643214', '[SylvanProductions','16677789999','sylvan.products@AOL.com','3164](about:blank) Eagle Harbor Rd','Machias', 'Maine', '04654');

INSERT INTO SponsorshipCompany

VALUES ('0123698574854698754102365', 'ChannelThunderBall', '[13134444789','channelThunder@yahoo.com','235](about:blank) N Main St','Caribou','Maine', '04736');

INSERT INTO Convention

VALUES ('0462718465', 'ComicalCon', '05-NOV-2021', '076543216789453', '9078654321345678905643214');

INSERT INTO Convention

VALUES ('2056473820', 'TableTops', '17-FEB-2021', '045362178904563', '0123698574854698754102365');

INSERT INTO Convention

VALUES ('0258794561', 'MagikCon', '06-SEP-2021','123456789023456','9854710236589745698015403');

INSERT INTO REGISTRATION

VALUES ('0462718465', '01478520369872768965');

INSERT INTO REGISTRATION

VALUES ('2056473820', '96453157789952157890');

INSERT INTO REGISTRATION

VALUES ('0258794561', '75369514896317625894');

INSERT INTO Product

VALUES ('123456789098789765432345678907', 0020,0029.99,1, 'Players Manual','Bob Hope','5th',0,'','');

INSERT INTO Product

VALUES ('098765432154637289012345678906', 0100,0010.00,0, '','','', 1,'Dice Box',03.50);

INSERT INTO Product

VALUES ('675849301234765478905647321768', 0010,0029.99,1,'Monster Manual','Bob Ross','5th',0,'','');

INSERT INTO Vendor

VALUES('58302','NerdPoria','7776654328','Manuals Dice','0462718465');

INSERT INTO Vendor

VALUES('00035','YugeDragons','58556555755','Figures Paint','0258794561');

INSERT INTO Vendor

VALUES('67893','DnDProps','71426709876','Costumes Props','2056473820');

INSERT INTO Sale

VALUES ('123456789023456', '675849301234765478905647321768','01478520369872768965');

INSERT INTO Sale

VALUES ('076543216789453', '123456789098789765432345678907','96453157789952157890');

INSERT INTO Sale

VALUES ('045362178904563', '098765432154637289012345678906','75369514896317625894');

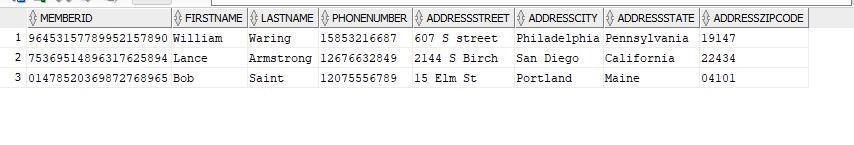
**8. QUERIES:**

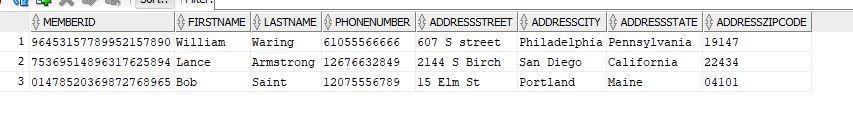
**Description:** This is used to update community members phone numbers. In this instance, it was William Waring. This is useful because people can get new phone numbers and need to update their contact information.

UPDATE CommunityMember

SET phoneNumber = '61055566666'

WHERE phoneNumber = '15853216687';





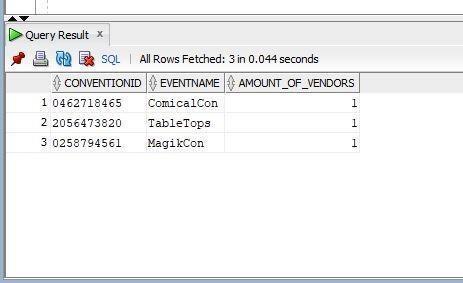
**Description:** This shows the convention ID, Name, and the amount of vendors for each event through a join. Important because the convention can now how many stalls to prepare for vendors in a location.

SELECT c.conventionID, c.eventName, COUNT(v.marketplace) AS Amount\_Of\_Vendors

FROM convention c JOIN vendor v

ON c.conventionID = v.marketplace

GROUP BY c.conventionID, c.eventName;

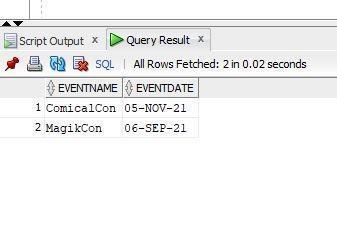


**Description:** This shows the event name and date for events that are after August 1st 2021. This would be important for LGS people to know their schedule for the fall/winter.

SELECT eventName, eventDate

FROM Convention

WHERE eventDate > '01-AUG-2021';



**Description:**  This shows the sales made at a store by which customers for a book alongside its price. Useful when looking for consumers who bought books and from what stores.

SELECT l.storeName AS Store\_Hosting\_Sale, c.firstName AS Customer\_FirstName, c.lastName AS Customer\_LastName, p.title AS Book\_Title, p.price

FROM communityMember c JOIN sale s

ON c.memberID = s.consumer

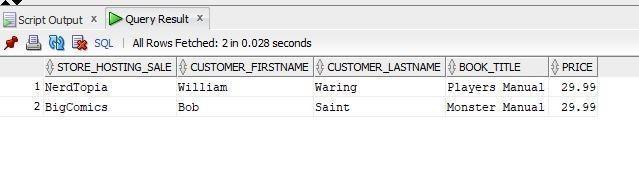
JOIN product p

ON p.SKUNumber = s.product

JOIN lgs l

ON l.storeID = s.location

WHERE p.isBook = '1';

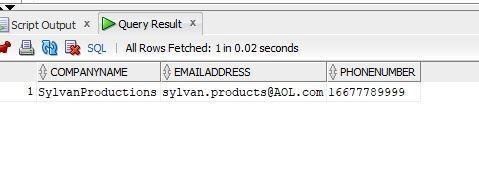


**Description:**  Good to use when searching for a production company’s contact information to sponsor a convention that is based on filming or Television.

SELECT companyName, emailAddress, phoneNumber

FROM SponsorshipCompany

WHERE companyName LIKE '%Productions';



**Description:**  Good to use when a vendor no longer wants to participate in conventions in the

future.

DELETE FROM vendor

WHERE vendorName = 'NerdPoria';

