CREATE DATABASE sales1;

USE sales1;

CREATE TABLE sales\_info (

SaleDate CHAR(10),

sale\_day INT,

sale\_year INT,

Customer\_Age INT,

age\_group VARCHAR(255),

customer\_gender VARCHAR(10),

Country VARCHAR (255),

State VARCHAR (255),

Customer\_ID INT NOT NULL PRIMARY KEY)

;

SELECT \* FROM sales\_info;

SET SQL\_SAFE\_UPDATES=0;

UPDATE sales\_info SET SaleDate = STR\_TO\_DATE(SaleDate, "%m/%d/%Y");

CREATE DATABASE products1;

USE products1;

CREATE TABLE products\_info (

product\_category VARCHAR(255),

sub\_category VARCHAR(255),

product VARCHAR (255),

order\_quantity INT,

unit\_cost INT,

unit\_price INT,

profit INT,

cost INT,

CustomerID INT NOT NULL PRIMARY KEY

);

/\*using insert into to add records to products\_info table\*/

INSERT INTO products\_info VALUES ("Accessories","Bike Racks", "Helmet",34,25,120,267,315,26);

INSERT INTO products\_info VALUES ("Accessories","Bike Racks", "Water Bottle",34,25,120,283,513,62);

SELECT \* FROM products\_info;

SELECT MAX(unit\_cost) FROM products\_info;

SELECT MIN(unit\_cost) FROM products\_info;

SELECT AVG(unit\_cost) FROM products\_info;

SELECT \* FROM sales1.sales\_info;

SELECT \* FROM products\_info;

/\*using four different joins to compare information from two tables on similar column of Customer\_ID\*/

SELECT SaleDate, sale\_year, customer\_age, product

FROM sales1.sales\_info JOIN products1.products\_info ON Customer\_ID = Customer\_ID;

SELECT SaleDate, sale\_year, customer\_age, product

FROM sales1.sales\_info LEFT JOIN products1.products\_info ON Customer\_ID = Customer\_ID;

SELECT SaleDate, sale\_year, customer\_age, product

FROM sales1.sales\_info RIGHT JOIN products1.products\_info ON Customer\_ID = Customer\_ID;

SELECT SaleDate, sale\_year, customer\_age, product

FROM sales1.sales\_info full JOIN products1.products\_info ON Customer\_ID = Customer\_ID;

/\* CASE example\*/

SELECT customer\_age,

CASE WHEN customer\_age <=30 THEN '30 or younger'

WHEN customer\_age BETWEEN 31 AND 50 THEN 'between 31 and 50'

WHEN customer\_age > 50 THEN '51 or older'

END AS age\_brackets

FROM sales1.sales\_info;

SELECT \* FROM sales1.sales\_info;

/\*using count and group by to find number of customers per country\*/

SELECT COUNT(customer\_id), country FROM

sales1.sales\_info

GROUP BY country;

/\* using like clause to find all records for countries that start with letter A\*/

SELECT \* FROM sales1.sales\_info

WHERE country LIKE 'A%';

/\* order by clause ordered by product ascending and then order quantity descending\*/

SELECT \* FROM products\_info

ORDER BY product,order\_quantity DESC;

SELECT \* FROM products\_info WHERE product = "Helmet" OR cost = 45;

/\*find average profit per product, only include if average greater than 275\*/

SELECT product, AVG(profit)

FROM products\_info

GROUP BY product

HAVING AVG(profit) > 275;

/\* using in clause to find only data within certain years\*/

SELECT \* FROM sales1.sales\_info

WHERE sale\_year IN (2014,2015);