create database sales1;

use sales1;

drop database 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;

drop database 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

);

drop table products\_info;

/\*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;

/\* CASE example\*/

select customer\_age,

case when customer\_age <=30 then 'younger than 30'

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);