CREATE TABLE IF NOT EXISTS Customer  
(  
 customerid INT,  
 firstname VARCHAR(50),  
 lastname VARCHAR(50),  
 city VARCHAR(50),  
 state VARCHAR(50),  
 CONSTRAINT prmr\_key PRIMARY KEY (customerid)  
);  
  
CREATE TABLE IF NOT EXISTS Items\_ordered  
(  
 customerid INT,  
 order\_date DATE,  
 item VARCHAR(50),  
 quantity INT,  
 price NUMERIC(8, 2),  
 CONSTRAINT foreign\_key FOREIGN KEY (customerid) REFERENCES Customer (customerid)  
);  
  
INSERT INTO Customer  
VALUES (10101, 'John', 'Gray', 'Lynden', 'Washington'),  
 (10298, 'Leroy', 'Brown', 'Pinetop', 'Arizona'),  
 (10299, 'Elroy', 'Keller', 'Snoqualmie', 'Washington'),  
 (10315, 'Lisa', 'Jones', 'Oshkosh', 'Wisconsin'),  
 (10325, 'Ginger', 'Schultz', 'Pocatello', 'Idaho'),  
 (10329, 'Kelly', 'Mendoza', 'Kailua', 'Hawaii'),  
 (10330, 'Shawn', 'Dalton', 'Cannon Beach', 'Oregon'),  
 (10338, 'Michael', 'Howell', 'Tillamook', 'Oregon'),  
 (10339, 'Anthony', 'Sanchez', 'Winslow', 'Arizona'),  
 (10408, 'Elroy', 'Cleaver', 'Globe', 'Arizona'),  
 (10410, 'Mary Ann', 'Howell', 'Charleston', 'South Carolina'),  
 (10413, 'Donald', 'Davids', 'Gila Bend', 'Arizona'),  
 (10419, 'Linda', 'Sakahara', 'Nogales', 'Arizona'),  
 (10429, 'Sarah', 'Graham', 'Greensboro', 'North Carolina'),  
 (10438, 'Kevin', 'Smith', 'Durango', 'Colorado'),  
 (10439, 'Conrad', 'Giles', 'Telluride', 'Colorado'),  
 (10449, 'Isabela', 'Moore', 'Yuma', 'Arizona');  
  
INSERT INTO Items\_ordered  
VALUES (10330, STR\_TO\_DATE('30-Jun-1999', '%d-%b-%Y'), 'Pogo stick', 1, 28.00),  
 (10101, STR\_TO\_DATE('30-Jun-1999', '%d-%b-%Y'), 'Raft', 1, 58.00),  
 (10298, STR\_TO\_DATE('01-Jul-1999', '%d-%b-%Y'), 'Skateboard', 1, 33.00),  
 (10101, STR\_TO\_DATE('01-Jul-1999', '%d-%b-%Y'), 'Life Vest', 4, 125.00),  
 (10299, STR\_TO\_DATE('06-Jul-1999', '%d-%b-%Y'), 'Parachute', 1, 1250.00),  
 (10339, STR\_TO\_DATE('27-Jul-1999', '%d-%b-%Y'), 'Umbrella', 1, 4.50),  
 (10449, STR\_TO\_DATE('13-Aug-1999', '%d-%b-%Y'), 'Unicycle', 1, 180.79),  
 (10439, STR\_TO\_DATE('14-Aug-1999', '%d-%b-%Y'), 'Ski Poles', 2, 25.50),  
 (10101, STR\_TO\_DATE('18-Aug-1999', '%d-%b-%Y'), 'Rain Coat', 1, 18.30),  
 (10449, STR\_TO\_DATE('01-Sep-1999', '%d-%b-%Y'), 'Snow Shoes', 1, 45.00),  
 (10439, STR\_TO\_DATE('18-Sep-1999', '%d-%b-%Y'), 'Tent', 1, 88.00),  
 (10298, STR\_TO\_DATE('19-Sep-1999', '%d-%b-%Y'), 'Lantern', 2, 29.00),  
 (10410, STR\_TO\_DATE('28-Oct-1999', '%d-%b-%Y'), 'Sleeping Bag', 1, 89.22),  
 (10438, STR\_TO\_DATE('01-Nov-1999', '%d-%b-%Y'), 'Umbrella', 1, 6.75),  
 (10438, STR\_TO\_DATE('02-Nov-1999', '%d-%b-%Y'), 'Pillow', 1, 8.50),  
 (10298, STR\_TO\_DATE('01-Dec-1999', '%d-%b-%Y'), 'Helmet', 1, 22.00),  
 (10449, STR\_TO\_DATE('15-Dec-1999', '%d-%b-%Y'), 'Bicycle', 1, 380.50),  
 (10449, STR\_TO\_DATE('22-Dec-1999', '%d-%b-%Y'), 'Canoe', 1, 280.00),  
 (10101, STR\_TO\_DATE('30-Dec-1999', '%d-%b-%Y'), 'Hoola Hoop', 3, 14.75),  
 (10330, STR\_TO\_DATE('01-Jan-2000', '%d-%b-%Y'), 'Flashlight', 4, 28.00),  
 (10101, STR\_TO\_DATE('02-Jan-2000', '%d-%b-%Y'), 'Lantern', 1, 16.00),  
 (10299, STR\_TO\_DATE('18-Jan-2000', '%d-%b-%Y'), 'Inflatable Mattress', 1, 38.00),  
 (10438, STR\_TO\_DATE('18-Jan-2000', '%d-%b-%Y'), 'Tent', 1, 79.99),  
 (10413, STR\_TO\_DATE('19-Jan-2000', '%d-%b-%Y'), 'Lawnchair', 4, 32.00),  
 (10410, STR\_TO\_DATE('30-Jan-2000', '%d-%b-%Y'), 'Unicycle', 1, 192.50),  
 (10315, STR\_TO\_DATE('02-Feb-2000', '%d-%b-%Y'), 'Compass', 1, 8.00),  
 (10449, STR\_TO\_DATE('29-Feb-2000', '%d-%b-%Y'), 'Flashlight', 1, 4.50),  
 (10101, STR\_TO\_DATE('08-Mar-2000', '%d-%b-%Y'), 'Sleeping Bag', 2, 88.70),  
 (10298, STR\_TO\_DATE('18-Mar-2000', '%d-%b-%Y'), 'Pocket Knife', 1, 22.38),  
 (10449, STR\_TO\_DATE('19-Mar-2000', '%d-%b-%Y'), 'Canoe paddle', 2, 40.00),  
 (10298, STR\_TO\_DATE('01-Apr-2000', '%d-%b-%Y'), 'Ear Muffs', 1, 12.50),  
 (10330, STR\_TO\_DATE('19-Apr-2000', '%d-%b-%Y'), 'Shovel', 1, 16.75);

# Ques\_No 1  
SELECT customerid, item, price  
FROM Items\_ordered  
WHERE customerid = 10449;  
  
# Ques\_No 2  
SELECT \*  
FROM Items\_ordered  
WHERE item = 'Tent';  
  
# Ques\_No 3  
SELECT customerid, order\_date, quantity  
FROM Items\_ordered  
WHERE item LIKE 'S%';  
  
# Ques\_No 4  
SELECT MAX(price)  
from Items\_ordered;  
  
# Ques\_No 5  
SELECT AVG(price)  
from Items\_ordered  
WHERE MONTH(order\_date) = 12;  
  
# Ques\_No 6  
SELECT MIN(price)  
FROM Items\_ordered  
WHERE item = 'Tent';  
  
# Ques\_No 7  
SELECT state, COUNT(\*)  
FROM Customer  
GROUP BY state;  
  
# Ques\_No 8  
SELECT item, MAX(price), MIN(price)  
from Items\_ordered  
GROUP BY item;  
  
# Ques\_No 9  
SELECT customerid, COUNT(\*)  
FROM Items\_ordered  
GROUP BY customerid;  
  
# Ques\_No 10  
SELECT state, COUNT(\*)  
FROM Customer  
GROUP BY state  
HAVING COUNT(\*) > 1;  
  
# Ques\_No 11  
SELECT lastname, firstname, customerid  
FROM Customer  
ORDER BY lastname DESC;  
  
# Ques\_No 12  
SELECT item, price  
FROM Items\_ordered  
WHERE price > 10  
ORDER BY price;  
  
# Ques\_No 13  
SELECT customerid, order\_date, item  
FROM Items\_ordered  
WHERE item NOT IN ('Snow Shoes', 'Ear Muffs');  
  
# Ques\_No 14  
SELECT item, price  
FROM Items\_ordered  
WHERE item REGEXP '^[SPF]';  
  
# Ques\_No 15  
SELECT order\_date, item, price  
from Items\_ordered  
WHERE price BETWEEN 10 AND 80;  
  
# Ques\_No 16  
SELECT firstname, city, state  
from Customer  
WHERE state IN ('Arizona', 'Washington', 'Oklahoma', 'Colorado', 'Hawaii');  
  
# Ques\_No 17  
SELECT item, price / quantity  
FROM Items\_ordered;  
  
# Ques\_No 18  
SELECT firstname, lastname, city, item, order\_date, price  
FROM Customer  
 INNER JOIN Items\_ordered USING (customerid);  
  
# Ques\_No 19  
SELECT firstname, lastname, order\_date  
FROM Customer  
 INNER JOIN Items\_ordered USING (customerid)  
WHERE customerid = 10101;  
  
# Ques\_No 20  
SELECT YEAR(order\_date) AS 'Year', SUM(price) AS 'Total Sales'  
FROM Items\_ordered  
GROUP BY YEAR(order\_date);  
  
# Ques\_No 21  
SELECT \*  
FROM Customer  
WHERE customerid NOT IN (SELECT DISTINCT customerid FROM Items\_ordered);  
  
# Ques\_No 22  
SELECT firstname, lastname  
FROM Customer  
WHERE customerid IN (SELECT DISTINCT customerid FROM Items\_ordered);  
  
# Ques\_No 23  
SELECT customerid,  
 firstname,  
 lastname,  
 city,  
 state,  
 item,  
 price,  
 order\_date  
FROM Customer  
 INNER JOIN Items\_ordered USING (customerid)  
WHERE price > 800;  
  
# Ques\_No 24  
SELECT C.\*, I.quantity  
FROM Customer C  
 INNER JOIN Items\_ordered I on C.customerid = I.customerid;  
  
# Ques\_No 25 (Used MySQL 8.0)  
SELECT Month  
FROM (SELECT MONTHNAME(order\_date) AS 'Month',  
 RANK() OVER (ORDER BY COUNT(DISTINCT customerid) DESC) AS ranking  
 FROM Items\_ordered  
 GROUP BY MONTHNAME(order\_date)  
 ) selection  
WHERE ranking = 1;  
  
# Ques\_No 26  
SELECT DISTINCT I.item  
FROM Items\_ordered I  
 INNER JOIN Customer C on I.customerid = C.customerid  
WHERE C.state = 'Colorado';  
  
# Ques\_No 27  
SELECT DISTINCT I.\*  
FROM Items\_ordered I  
 INNER JOIN Customer C on I.customerid = C.customerid  
WHERE I.price > 350  
 AND C.state IN ('Colorado', 'North Carolina', 'Washington', 'South Carolina');  
  
# Ques\_No 28  
SELECT YEAR(order\_date), SUM(price)  
FROM Items\_ordered  
WHERE customerid = 10101  
GROUP BY YEAR(order\_date);  
  
# Ques\_No 29  
SELECT C.\*  
FROM Customer C  
 INNER JOIN Items\_ordered I on C.customerid = I.customerid  
WHERE C.state = 'Colorado'  
 AND I.item = 'Umbrella';  
  
# Ques\_No 30  
SELECT DISTINCT customerid  
FROM Items\_ordered  
WHERE YEAR(order\_date) BETWEEN 1999 AND 2000;