

```
create table customer(  
customerID int primary key,  
Fname varchar(20),  
Lname varchar(20),  
Address varchar(30),  
city varchar(20),  
state char(2),  
zip char(5));
```

```
create table supplier(  
Sname varchar(31) primary key,  
city varchar(15),  
zip char(5));
```

```
create table product(  
UPC char(5) primary key,  
Pname varchar(25),  
price decimal(6,2),  
Sname varchar(31),  
amount int,  
reorderlevel int,  
foreign key(Sname) references supplier(Sname));
```

```
create table orders(  
orderID int primary key,  
orderdate char(10),  
shipdate char(10),  
payment_type varchar(10),  
CCN varchar(20),  
customerID int,  
foreign key (customerID) references customer(customerID));
```

```
create table contains(  
orderID int,  
UPC char(5),  
quantity int,  
primary key (orderID, UPC),
```

```
foreign key(UPC) references product(UPC),  
foreign key(orderID) references orders(orderID));
```

```
create table rated(  
customerID int,  
UPC char(5),  
rating int,  
ratingdate char(10),  
primary key(customerID, UPC),  
foreign key(customerID) references customer(customerID),  
foreign key(UPC) references product (UPC));
```

```
create table wishes(  
customerID int,  
UPC char(5),  
primary key(customerID, UPC),  
foreign key(customerID) references customer (customerID),  
foreign key(UPC) references product (UPC));
```

```
create table product_category(  
UPC char(5),  
category varchar(15),  
primary key(UPC, category),  
foreign key(UPC) references product(UPC));
```

```
insert into customer values(1, 'Allene', 'Iturbide', '1 Central Ave', 'Portage', 'WI',  
'54481');
```

```
insert into customer values(2, 'Marino', 'Lueckenbach', '1 Century Park E', 'San  
Diego', 'CA', '92110');
```

```
insert into customer values(3, 'Twana', 'Felger', '1 Commerce  
Way', 'Washington', 'OR', '97224');
```

```
insert into customer values(4, 'Salena', 'Karpel', '1 Garfield Ave #7', 'Stark', 'OH',  
'44707');
```

```
insert into customer values(5, 'Arminda', 'Parvis', '1 Huntwood Ave', 'Maricopa', 'AZ',  
'85017');
```

insert into customer values(6, 'Nicolette', 'Brossart', '1 Midway Rd', 'Worcester', 'MA', '15281');

insert into customer values(7, 'Joanne', 'Mathieu', '1 N Harlem Ave #9', 'Essex', 'NJ', '70503');

insert into customer values(8, 'Jacque', 'Rowling', '1 N San Saba', 'Erie', 'PA', '16501');

insert into customer values(9, 'Hermin', 'Thyberg', '1 Rancho Del Mar Shopping C', 'Providence', 'RI', '29103');

insert into customer values(10, 'Johann', 'Leinenbach', '1 Washington St', 'Palm Beach', 'FL', '33461');

insert into customer values(11, 'Roxane', 'Campain', '1048 Main St', 'Fairbanks North Star', 'AK', '99708');

insert into customer values(12, 'Clorinda', 'Heimann', '105 Richmond Valley Rd', 'San Diego', 'CA', '92025');

insert into customer values(13, 'Regis', 'Kannady', '10759 Main St', 'Maricopa', 'AZ', '85260');

insert into customer values(14, 'John', 'Abdallah', '1088 Pinehurst St', 'Orange', 'NC', '27514');

insert into customer values(15, 'Arlette', 'Honeywell', '11279 Loytan St', 'Duval', 'FL', '32254');

insert into customer values(16, 'Aliza', 'Baltimore', '1128 Delaware St', 'Santa Clara', 'CA', '95132');

insert into customer values(17, 'Carissa', 'Batman', '12270 Caton Center Dr', 'Lane', 'OR', '97401');

insert into customer values(18, 'Manny,Kohnert', '134 Lewis Rd', 'Davidson', 'TN', '37211');

insert into customer values(19, 'Amber', 'Monarrez', '14288 Foster Ave #4121', 'Montgomery', 'PA', '19046');

insert into customer values(20, 'Dean', 'Juhas', '14302 Pennsylvania Ave', 'Montgomery', 'PA', '19006');

insert into customer values(21, 'Jolene', 'Ostolaza', '1610 14th St Nw', 'Newport News City', 'VA', '23608');

insert into customer values(22, 'Rozella', 'Ostrosky', '17 Morena Blvd', 'Ventura', 'CA', '93012');

insert into customer values(23, 'Cyndy', 'Goldammer', '170 Wyoming Ave', 'Dakota', 'MN', '55337');

insert into customer values(24, 'Angello', 'Cetta', '185 Blackstone Bldge', 'Honolulu', 'HI', '96817');

insert into customer values(25, 'Paris', 'Wide', '187 Market St', 'Fulton', 'GA', '30342');

insert into customer values(26, 'Jean', 'Claucherty', '19 Amboy Ave', 'Miami-Dade', 'FL', '33142');

insert into customer values(27, 'Merlin', 'Bayless', '195 13n N', 'Santa Clara', 'CA', '95054');

insert into customer values(28, 'Diane', 'Devreese', '1953 Telegraph Rd', 'Buchanan', 'MO', '64504');

insert into customer values(29, 'Fatima', 'Saylors', '2 Lighthouse Ave', 'Hennepin', 'MN', '55343');

insert into customer values(30, 'Kaitlyn', 'Ogg', '2 S Biscayne Blvd', 'Baltimore City', 'MD', '21230');

insert into customer values(31, 'Sunny', 'Kownacki', '2 Se 3rd Ave', 'Dallas', 'TX', '75149');

insert into customer values(32, 'Ray', 'Kampa', '2 Sw Nyberg Rd', 'Elkhart', 'IN', '46514');

insert into customer values(33, 'Lili', 'Paskin', '20113 4th Ave E', 'Hudson', 'NJ', '71032');

insert into customer values(34, 'Rebecka', 'Gesick', '2026 N Plankinton Ave #3', 'Travis', 'TX', '78754');

insert into customer values(35, 'Micael', 'Rhymes', '20932 Hedley St', 'Contra Costa', 'CA', '94520');

insert into customer values(36, 'Colette', 'Kardas', '21575 S Apple Creek Rd', 'Douglas', 'NE', '68124');

insert into customer values(37, 'Refugia', 'Jacobos', '2184 Worth St', 'Alameda', 'CA', '94545');

insert into customer values(38, 'Tresa', 'Sweely', '22 Bridle Ln', 'Saint Louis', 'MO', '63088');

insert into customer values(39, 'Jesusa', 'Shin', '2239 Shawnee Mission Pky', 'Coffee', 'TN', '37388');

insert into customer values(40, 'Layla', 'Springe', '229 N Forty Driv', 'New York', 'NY', '10011');

insert into customer values(41, 'Sheldon', 'Zane', '2409 Alabama Rd', 'Riverside', 'CA', '92501');

insert into customer values(42, 'Kiley', 'Caldarera', '25 E 75th St #69', 'Los Angeles', 'CA', '90034');

insert into customer values(43, 'Luis', 'Jurney', '25 Se 176th Pl', 'Middlesex', 'MA', '82138');

insert into customer values(44, 'Rasheed', 'Sayaphon', '251 Park Ave #979', 'Santa Clara', 'CA', '95070');

insert into customer values(45, 'Renea', 'Monterrubio', '26 Montgomery St', 'Fulton', 'GA', '30328');
insert into customer values(46, 'Carmelo', 'Lindall', '2664 Lewis Rd', 'Douglas', 'CO', '80126');
insert into customer values(47, 'Linn', 'Paa', '1 S Pine St', 'Shelby', 'TN', '38112');
insert into customer values(48, 'Yuki', 'Whobrey', '1 State Route 27', 'Wayne', 'MI', '48180');
insert into customer values(49, 'Trinidad', 'Mcrae', '10276 Brooks St', 'San Francisco', 'CA', '94105');
insert into customer values(50, 'Daniel', 'Perruzza', '11360 S Halsted St', 'Orange', 'CA', '92705');

insert into supplier values('Seatec Astronomy', 'Seattle', '98124');
insert into supplier values('HB Products LLC', 'Castro Valley', '91546');
insert into supplier values('Large System Distributors', 'Denver', '80022');
insert into supplier values('Kaman Industrial Technologies', 'Big Timber', '59011');
insert into supplier values('UCA Group Inc.', 'Richmond', '47374');
insert into supplier values('ProtoVision', 'Little Rock', '72201');
insert into supplier values('Hadden Industries', 'Oklahoma City', '73160');
insert into supplier values('Grainger Industrial Supply', 'Salt Lake City', '84115');
insert into supplier values('Cambridge Engineered Solutions', 'New Orleans', '70116');
insert into supplier values('Motion Enhanced Technology', 'Houston', '77010');
insert into supplier values('Melmarc Products Inc.', 'Santa Ana', '92704');
insert into supplier values('C. C. Filson', 'Seattle', '98124');
insert into supplier values('Aleris International Inc.', 'Beachwood', '44122');
insert into supplier values('NK Apparel', 'El Paso', '79950');

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insert into supplier values('Pegatron Products', 'Taylorville', '62568');
insert into supplier values('PolyOne', 'Pedricktown', '08067');
insert into supplier values('Akustica', 'Pittsburgh', '15203');
insert into supplier values('Prime Technologies', 'West Chester', '19382');
insert into supplier values('ViTech Scientific', 'Dover', '19901');
insert into supplier values('Bel-Art Products', 'Wayne', '07470');
```

```
insert into product values('00001', 'Xtreme Graphics 5000', 399.99, 'Melmarc
Products Inc.', 50, 10);
insert into product values('00002', 'Sure Feet Running Shoes', 59.99, 'NK
Apparel', 6, 30);
insert into product values('00003', 'Happy Smiles Face Paints', 19.99, 'Bel-Art
Products', 3, 75);
insert into product values('00004', 'Overpriced Calculator: College
Edition', 99.99, 'ViTech Scientific', 20, 5);
insert into product values('00005', 'Super-Sensor Door Opener', 120.00, 'Motion
Enhanced Technology', 4, 2);
insert into product values('00006', 'No More Stink Socks', 9.99, 'NK Apparel', 134, 60);
insert into product values('00007', 'Far Out! Telescope', 1099.99, 'Seatec
Astronomy', 3, 1);
insert into product values('00008', 'Bass Booster Subwoofers', 124.99, 'Melmarc
Products Inc.', 3, 10);
insert into product values('00009', 'Star Gazer Junior', 39.99, 'Seatec
Astronomy', 55, 35);
insert into product values('00010', 'Sunshine Yellow', 44.99, 'Bel-Art Products', 10, 15);
insert into product values('00011', 'Job Hunter Discount Suit', 74.99, 'NK
Apparel', 44, 30);
```

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insert into product values('00012','Head Secure Hard Hat',59.99,'Grainger
Industrial Supply',40,20);
insert into product values('00013','The Overclocker: Extreme CPU',349.99,'Melmarc
Products Inc.',32,30);
insert into product values('00014','DG Camera',120.00,'ProtoVision',150,20);
insert into product values('00015','Puzzle Blocks for Kids',19.99,'HB Products
LLC',0,30);
insert into product values('00016','Chef Gourmet Pasta',8.00,'PolyOne',50,10);
insert into product values('00017','Portable Motion Detector',50.00,'Motion
Enhanced Technology',5,10);
insert into product values('00018','Smart Cooker',65.00,'Pegatron Products',150,20);
insert into product values('00019','Summer Dress',19.00,'Bel-Art Products',250,35);
insert into product values('00020','Book of Colors and Numbers',9.99,'C. C.
Filson',70,10);
insert into product values('00021','Mini Acoustic Guitar',35.00,'Akustica',50,10);
insert into product values('00022','Travel Coffee Maker',39.00,'Cambridge
Engineered Solutions',20,50);
insert into product values('00023','Car Stereo System',60.00,'Kaman Industrial
Technologies',50,10);
insert into product values('00024','Winter Jacket',55.00,'NK Apparel',100,20);
insert into product values('00025','Talking Doll',25.00,'Melmarc Products
Inc.',12,15);
insert into product values('00026','Telescope',300.00,'Seatec Astronomy',50,10);
insert into product values('00027','Printer Paper',4.00,'HB Products LLC',0,50);
insert into product values('00028','AC Unit',2000.00,'Large System
Distributors',10,4);
insert into product values('00029','Ventilation Filter',22.00,'Kaman Industrial
Technologies',0,20);
insert into product values('00030','Surface Pro 4', 600.00,'UCA Group Inc.',30,10);
insert into product values('00031','Sunglasses',50.00,'ProtoVision',75,15);
insert into product values('00032','Thermal Sensor',350.00,'Hadden
Industries',15,3);
insert into product values('00033','Digital Clock',15.00,'Motion Enhanced
Technology',30,150);
insert into product values('00034','Sweater',34.99,'NK Apparel',100,25);
insert into product values('00035','Transformer Action Figure',5.00,'Pegatron
Products',90,250);
insert into product values('00036','Star Wars Sticker',0.50,'Akustica',50,2000);
insert into product values('00037','Smartwatch',250.00,'ViTech Scientific',50,10);

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insert into product values('00038','Winnie the Pooh Book',7.99,'C. C. Filson',80,20);
insert into product values('00039','Calculus Book',50.00,'HB Products LLC',250,50);
insert into product values('00040','Basic Telescope',100.00,'Seatec
Astronomy',10,25);
insert into product values('00041','High End Telescope',100.00,'Seatec
Astronomy',100,20);
insert into product values('00042','Gerber Baby Food',5.00,'HB Products LLC',0,50);
insert into product values('00043','Leap Frog Tablet',100.00,'Seatec
Astronomy',100,20);
insert into product values('00044','Robot Chef',4999.99,'ViTech Scientific',75,10);
insert into product values('00045','Kids Baking Set',50.00,'Melmarc Products
Inc.',20,20);
insert into product values('00046','Math Card Game',10.00,'HB Products LLC',13,20);
insert into product values('00047','Learn To Drive Game',50.00,'Melmarc Products
Inc.',200,25);
insert into product values('00048','X-Ray Goggles',100.00,'ProtoVision',14,15);
insert into product values('00049','Babys First Game Console',150.00,'Motion
Enhanced Technology',100,20);
insert into product values('00050','Baby Learns German',50.00,'Aleris International
Inc.',175,20);

```

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insert into orders values(1, '2018-03-13', '2018-03-14', 'DISCOVER',
'9164372000812465', 40);
insert into orders values(2, '2018-05-28', '2018-05-30', 'DISCOVER',
'6012768542759725', 47);
insert into orders values(3, '2017-04-30', '2017-05-01', 'VISA',
'8347756029370204', 30);
insert into orders values(4, '2017-04-29', NULL, 'VISA', '1114002556361579', 3);
insert into orders values(5, '2017-11-06', '2017-11-06', 'DISCOVER',
'4210064978513444', 50);
insert into orders values(6, '2018-12-21', '2018-12-23', 'MC', '1118499655232199',
22);

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```
insert into orders values(7, '2017-06-14', '2017-06-16', 'VISA', '4265118281748638',1);
insert into orders values(8, '2017-03-18', NULL, 'VISA', '4265869811318674', 28);
insert into orders values(9, '2018-04-01', '2018-04-01', 'MC', '3452375437457477',39);
insert into orders values(10, '2017-03-08', '2017-03-10', 'DISCOVER', '6012774573811574', 5);
insert into orders values(11, '2018-09-07', '2018-09-07', 'MC', '5468144688987718', 1);
insert into orders values(12, '2018-09-11', '2018-09-13', 'MC', '5468546846118779', 17);
insert into orders values(13, '2018-09-13', '2018-09-15', 'DISCOVER', '6012153213234465', 13);
insert into orders values(14, '2018-09-30', '2018-10-12', 'VISA', '4265289331424117', 19);
insert into orders values(15, '2017-01-15', NULL, 'DISCOVER', '6012426788599159', 41);
insert into orders values(16, '2017-01-20', '2017-01-25', 'DISCOVER', '6012768542759725', 47);
insert into orders values(17, '2017-01-25', '2017-01-27', 'DISCOVER', '6012157634756744', 42);
insert into orders values(18, '2017-01-30', '2017-01-31', 'VISA', '4265168598671186', 38);
insert into orders values(19, '2017-01-31', NULL, 'MC', '5468745248681198', 34);
insert into orders values(20, '2017-02-27', '2017-03-05', 'MC', '5468980177136168', 35);
insert into orders values(21, '2017-03-09', '2017-03-15', 'VISA', '4265869811318674', 28);
insert into orders values(22, '2017-04-17', '2017-04-15', 'DISCOVER', '6012774573811574', 5);
insert into orders values(23, '2017-06-13', '2017-06-15', 'VISA', '4265835707253080', 3);
insert into orders values(24, '2017-10-10', NULL, 'DISCOVER', '6012084174461331', 4);
insert into orders values(25, '2017-10-13', '2017-10-15', 'MC', '5468854174987618', 2);
insert into orders values(26, '2017-10-25', '2017-11-01', 'VISA', '4265118281748638', 1);
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insert into orders values(27, '2017-12-10', '2017-12-13', 'DISCOVER',
'6012184786257849', 11);
insert into orders values(28, '2018-06-07', '2018-06-09', 'MC',
'5468798412456752', 10);
insert into orders values(29, '2018-06-09', '2018-06-11', 'VISA',
'4265174686390108', 9);
insert into orders values(30, '2018-06-25', NULL, 'VISA', '4265741118566723', 8);
insert into orders values(31, '2019-12-02', '2019-12-04', 'VISA',
'1932134219123456', 3);
insert into orders values(32, '2019-01-03', '2019-01-04', 'DISCOVER',
'1934527846572318', 1);
insert into orders values(33, '2019-04-02', '2019-04-04', 'MC',
'9847568320987564', 3);
insert into orders values(34, '2019-03-01', '2019-03-02', 'VISA',
'3214356453678564', 2);
insert into orders values(35, '2019-03-25', '2019-03-27', 'VISA',
'3564532567489706', 3);
insert into orders values(36, '2019-02-18', NULL, 'DISCOVER',
'5743287564732811', 13);
insert into orders values(37, '2019-01-04', NULL, 'MC', '5432344566789878', 1);
insert into orders values(38, '2019-02-03', '2019-02-04', 'VISA',
'3245654578765435', 20);
insert into orders values(39, '2019-02-09', '2019-02-10', 'MC',
'4345675678909876', 19);
insert into orders values(40, '2019-03-04', '2019-03-06', 'DISCOVER',
'3245674389876743', 17);
insert into orders values(41, '2019-01-23', '2019-01-25', 'MC', '3456554456780987',
13);
insert into orders values(42, '2019-02-05', '2019-02-07', 'MC',
'4554367898374568', 14);
insert into orders values(43, '2019-04-13', NULL, 'VISA', '3234567876758976',
15);
insert into orders values(44, '2019-04-13', NULL, 'DISCOVER',
'8789765467658796', 10);
insert into orders values(45, '2019-03-29', '2019-03-31', 'MC',
'4435678675456798', 20);
insert into orders values(46, '2019-02-03', '2019-02-05', 'VISA',
'4432345667654567', 11);
```

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insert into orders values(47, '2019-03-14', '2019-03-16', 'MC',
'3245654567345643', 1);
insert into orders values(48, '2019-01-18', '2019-01-20', 'DISCOVER',
'4453678909876545', 2);
insert into orders values(49, '2019-01-01', '2019-01-03', 'VISA',
'9876565476587643', 30);
insert into orders values(50, '2019-02-17', '2019-02-19', 'MC',
'0987656545676789', 40);
insert into orders values(51, '2019-02-20', '2019-02-21', 'VISA',
'9876545434323456', 9);
insert into orders values(52, '2019-04-14', NULL, 'DISCOVER',
'7678906678432964', 17);
insert into orders values(53, '2019-04-15', NULL, 'VISA', '4456758976543298',
19);
insert into orders values(54, '2019-02-01', '2019-02-03', 'MC',
'3323459807654356', 23);
insert into orders values(55, '2019-04-16', '2019-4-18', 'VISA',
'8765654345467865', 40);
insert into orders values(56, '2019-03-19', '2019-03-21', 'MC',
'8765654344562960', 48);
insert into orders values(57, '2019-04-17', '2019-04-19', 'MC', '7656745632231987',
32);
insert into orders values(58, '2019-02-15', '2019-02-17', 'VISA',
'9876566784320984', 14);
insert into orders values(59, '2019-03-01', NULL, 'DISCOVER',
'4432321234546785', 23);
insert into orders values(60, '2019-03-16', '2019-03-18', 'VISA',
'4432356789876789', 11);
insert into orders values(61, '2019-04-01', NULL, 'VISA', '9339548432521315', 1);
insert into orders values(62, '2019-04-05', '2019-04-08', 'DISCOVER',
'3125415914497660', 5);
insert into orders values(63, '2019-04-02', '2019-04-05', 'VISA',
'9704188718576016', 20);
insert into orders values(64, '2019-03-13', '2019-03-20', 'VISA',
'1294085164233338', 50);
insert into orders values(65, '2019-03-16', NULL, 'MC', '9182934429948195', 49);
insert into orders values(66, '2019-03-19', '2019-03-20', 'MC',
'9820396625678803', 16);
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insert into orders values(67, '2019-04-01', '2019-04-02', 'MC',
'7423648540714970', 15);
insert into orders values(68, '2019-04-01', '2019-04-02', 'MC', '8070263255919104',
25);
insert into orders values(69, '2019-04-01', '2019-04-02', 'DISCOVER',
'3277872856792989', 29);
insert into orders values(70, '2019-04-01', '2019-04-02', 'DISCOVER',
'0432928988501514', 35);
insert into orders values(71, '2019-03-12', '2019-03-15', 'DISCOVER',
'0842054108206533', 36);
insert into orders values(72, '2019-04-13', '2019-04-16', 'DISCOVER',
'1791134670737410', 10);
insert into orders values(73, '2019-04-16', '2019-04-19', 'MC', '4315419472554425',
4);
insert into orders values(74, '2019-04-21', '2019-04-25', 'MC', '6961214689171867',
3);
insert into orders values(75, '2019-04-26', '2019-04-30', 'MC',
'7889543366941024', 6);
insert into orders values(76, '2019-04-27', NULL, 'MC', '9176952863365214', 12);
insert into orders values(77, '2019-04-19', '2019-04-22', 'MC',
'6738183497704525', 14);
insert into orders values(78, '2019-04-15', '2019-04-17', 'VISA',
'9566115767216292', 17);
insert into orders values(79, '2019-03-12', '2019-03-16', 'VISA',
'1344296106210289', 13);
insert into orders values(80, '2019-03-10', '2019-03-12', 'VISA',
'4787510162307683', 24);
insert into orders values(81, '2019-03-19', '2019-03-21', 'VISA',
'3971406033891543', 27);
insert into orders values(82, '2019-03-26', '2019-03-29', 'VISA',
'7810751084510728', 37);
insert into orders values(83, '2019-02-14', NULL, 'VISA', '3677996829882834',
47);
insert into orders values(84, '2019-02-10', '2019-02-11', 'DISCOVER',
'1316415311728383', 49);
insert into orders values(85, '2019-02-18', '2019-02-19', 'DISCOVER',
'1695220840645544', 48);
insert into orders values(86, '2019-02-13', '2019-02-14', 'DISCOVER',
'9038679024540992', 26);
```

```
insert into orders values(87, '2019-02-02', '2019-02-03', 'DISCOVER',  
'5719475018947608', 23);  
insert into orders values(88, '2019-02-01', '2019-02-05', 'DISCOVER',  
'3245369873472128', 22);  
insert into orders values(89, '2019-02-07', NULL, 'DISCOVER',  
'9334469574159454', 9);  
insert into orders values(90, '2019-02-08', '2019-02-10', 'DISCOVER',  
'3874858422319789', 29);
```

```
insert into contains values(1, '00040', 3);  
insert into contains values(1, '00021', 6);  
insert into contains values(1, '00019', 7);  
insert into contains values(2, '00004', 7);  
insert into contains values(2, '00044', 3);  
insert into contains values(2, '00035', 3);  
insert into contains values(3, '00005', 10);  
insert into contains values(3, '00032', 9);  
insert into contains values(3, '00019', 8);  
insert into contains values(4, '00034', 5);  
insert into contains values(4, '00033', 4);  
insert into contains values(4, '00047', 9);  
insert into contains values(4, '00009', 10);  
insert into contains values(5, '00038', 5);  
insert into contains values(5, '00020', 5);  
insert into contains values(5, '00043', 3);  
insert into contains values(5, '00022', 2);  
insert into contains values(6, '00024', 1);  
insert into contains values(6, '00028', 1);  
insert into contains values(6, '00025', 9);  
insert into contains values(6, '00003', 1);  
insert into contains values(7, '00039', 2);  
insert into contains values(7, '00044', 7);  
insert into contains values(7, '00050', 5);  
insert into contains values(7, '00038', 8);  
insert into contains values(8, '00026', 4);  
insert into contains values(8, '00019', 6);  
insert into contains values(8, '00025', 7);
```

```
insert into contains values(9, '00017', 5);
insert into contains values(9, '00012', 7);
insert into contains values(9, '00037', 6);
insert into contains values(10, '00011', 10);
insert into contains values(10, '00033', 5);
insert into contains values(10, '00014', 8);
insert into contains values(11, '00048', 1);
insert into contains values(11, '00049', 6);
insert into contains values(11, '00001', 3);
insert into contains values(11, '00022', 8);
insert into contains values(12, '00023', 4);
insert into contains values(12, '00031', 10);
insert into contains values(12, '00005', 9);
insert into contains values(12, '00018', 8);
insert into contains values(13, '00003', 7);
insert into contains values(13, '00043', 7);
insert into contains values(13, '00037', 5);
insert into contains values(14, '00013', 7);
insert into contains values(14, '00008', 2);
insert into contains values(14, '00030', 10);
insert into contains values(15, '00015', 2);
insert into contains values(15, '00005', 3);
insert into contains values(15, '00050', 5);
insert into contains values(16, '00007', 4);
insert into contains values(16, '00042', 4);
insert into contains values(16, '00016', 9);
insert into contains values(17, '00042', 1);
insert into contains values(17, '00041', 7);
insert into contains values(17, '00027', 2);
insert into contains values(17, '00044', 9);
insert into contains values(18, '00048', 10);
insert into contains values(18, '00026', 10);
insert into contains values(18, '00002', 9);
insert into contains values(19, '00033', 2);
insert into contains values(19, '00012', 10);
insert into contains values(19, '00019', 8);
insert into contains values(20, '00041', 9);
insert into contains values(20, '00045', 8);
insert into contains values(20, '00030', 6);
```



```
insert into contains values(21, '00034', 3);
insert into contains values(21, '00033', 10);
insert into contains values(21, '00045', 1);
insert into contains values(21, '00016', 1);
insert into contains values(22, '00007', 8);
insert into contains values(22, '00049', 6);
insert into contains values(22, '00008', 1);
insert into contains values(23, '00041', 4);
insert into contains values(23, '00017', 6);
insert into contains values(23, '00018', 6);
insert into contains values(24, '00001', 8);
insert into contains values(24, '00005', 2);
insert into contains values(24, '00035', 6);
insert into contains values(25, '00009', 8);
insert into contains values(25, '00041', 8);
insert into contains values(25, '00003', 3);
insert into contains values(26, '00010', 5);
insert into contains values(26, '00039', 10);
insert into contains values(26, '00036', 4);
insert into contains values(27, '00028', 9);
insert into contains values(27, '00030', 5);
insert into contains values(27, '00024', 7);
insert into contains values(28, '00010', 3);
insert into contains values(28, '00014', 10);
insert into contains values(28, '00048', 4);
insert into contains values(29, '00010', 7);
insert into contains values(29, '00032', 10);
insert into contains values(29, '00012', 8);
insert into contains values(29, '00047', 4);
insert into contains values(30, '00039', 3);
insert into contains values(30, '00013', 4);
insert into contains values(30, '00002', 4);
insert into contains values(30, '00009', 4);
insert into contains values(33, '00004', 4);
insert into contains values(44, '00045', 4);
insert into contains values(40, '00047', 9);
insert into contains values(39, '00020', 3);
insert into contains values(56, '00037', 10);
insert into contains values(60, '00037', 10);
```

insert into contains values(54, '00022', 4);
insert into contains values(39, '00044', 4);
insert into contains values(38, '00028', 5);
insert into contains values(35, '00017', 7);
insert into contains values(42, '00046', 6);
insert into contains values(37, '00007', 4);
insert into contains values(48, '00029', 6);
insert into contains values(51, '00023', 2);
insert into contains values(38, '00021', 1);
insert into contains values(57, '00045', 2);
insert into contains values(57, '00040', 4);
insert into contains values(47, '00014', 8);
insert into contains values(58, '00019', 9);
insert into contains values(60, '00049', 3);
insert into contains values(33, '00038', 5);
insert into contains values(52, '00027', 1);
insert into contains values(49, '00028', 6);
insert into contains values(60, '00042', 2);
insert into contains values(42, '00044', 5);
insert into contains values(47, '00028', 5);
insert into contains values(51, '00030', 4);
insert into contains values(50, '00023', 1);
insert into contains values(44, '00044', 4);
insert into contains values(56, '00040', 3);
insert into contains values(57, '00031', 7);
insert into contains values(46, '00003', 6);
insert into contains values(60, '00009', 1);
insert into contains values(59, '00017', 7);
insert into contains values(55, '00006', 6);
insert into contains values(40, '00031', 8);
insert into contains values(36, '00040', 3);
insert into contains values(40, '00007', 2);
insert into contains values(51, '00008', 5);
insert into contains values(38, '00009', 5);
insert into contains values(37, '00001', 7);
insert into contains values(58, '00031', 9);
insert into contains values(46, '00012', 10);
insert into contains values(43, '00027', 6);
insert into contains values(60, '00035', 9);


```
insert into contains values(60, '00008', 9);
insert into contains values(54, '00024', 7);
insert into contains values(42, '00049', 10);
insert into contains values(38, '00013', 6);
insert into contains values(42, '00003', 2);
insert into contains values(44, '00042', 10);
insert into contains values(45, '00028', 7);
insert into contains values(51, '00050', 8);
insert into contains values(39, '00034', 1);
insert into contains values(44, '00023', 3);
insert into contains values(47, '00036', 7);
insert into contains values(38, '00014', 8);
insert into contains values(38, '00012', 2);
insert into contains values(50, '00026', 9);
insert into contains values(32, '00001', 2);
insert into contains values(48, '00036', 4);
insert into contains values(48, '00010', 8);
insert into contains values(40, '00008', 8);
insert into contains values(49, '00019', 5);
insert into contains values(54, '00014', 3);
insert into contains values(47, '00022', 7);
insert into contains values(57, '00027', 5);
insert into contains values(32, '00006', 3);
insert into contains values(51, '00047', 10);
insert into contains values(38, '00037', 6);
insert into contains values(48, '00005', 2);
insert into contains values(58, '00034', 5);
insert into contains values(46, '00036', 9);
insert into contains values(44, '00027', 4);
insert into contains values(48, '00001', 4);
insert into contains values(37, '00028', 1);
insert into contains values(38, '00039', 7);
insert into contains values(38, '00040', 6);
insert into contains values(36, '00010', 5);
insert into contains values(57, '00028', 3);
insert into contains values(55, '00020', 6);
insert into contains values(34, '00021', 1);
insert into contains values(42, '00037', 9);
insert into contains values(48, '00018', 8);
```

```
insert into contains values(59, '00044', 1);
insert into contains values(60, '00005', 4);
insert into contains values(31, '00048', 3);
insert into contains values(51, '00031', 5);
insert into contains values(39, '00042', 9);
insert into contains values(52, '00038', 2);
insert into contains values(42, '00035', 1);
insert into contains values(53, '00007', 6);
insert into contains values(51, '00032', 3);
insert into contains values(33, '00031', 7);
insert into contains values(64, '00028', 4);
insert into contains values(58, '00009', 2);
insert into contains values(49, '00010', 1);
insert into contains values(56, '00047', 10);
insert into contains values(76, '00024', 7);
insert into contains values(74, '00036', 2);
insert into contains values(45, '00033', 10);
insert into contains values(51, '00002', 8);
insert into contains values(70, '00047', 4);
insert into contains values(46, '00023', 8);
insert into contains values(58, '00018', 6);
insert into contains values(77, '00021', 10);
insert into contains values(53, '00025', 2);
insert into contains values(62, '00041', 2);
insert into contains values(50, '00008', 9);
insert into contains values(75, '00017', 3);
insert into contains values(70, '00039', 3);
insert into contains values(80, '00008', 2);
insert into contains values(59, '00020', 9);
insert into contains values(78, '00035', 4);
insert into contains values(71, '00026', 4);
insert into contains values(55, '00050', 3);
insert into contains values(57, '00041', 7);
insert into contains values(42, '00033', 9);
insert into contains values(45, '00006', 8);
insert into contains values(55, '00031', 5);
insert into contains values(47, '00023', 9);
insert into contains values(62, '00045', 4);
insert into contains values(66, '00035', 6);
```

```
insert into contains values(71, '00024', 3);
insert into contains values(68, '00048', 8);
insert into contains values(51, '00037', 1);
insert into contains values(79, '00009', 5);
insert into contains values(56, '00017', 4);
insert into contains values(63, '00007', 8);
insert into contains values(67, '00045', 9);
insert into contains values(79, '00014', 6);
insert into contains values(61, '00048', 3);
insert into contains values(73, '00036', 8);
insert into contains values(78, '00002', 3);
insert into contains values(58, '00025', 1);
insert into contains values(77, '00023', 1);
insert into contains values(44, '00035', 2);
insert into contains values(66, '00002', 9);
insert into contains values(64, '00018', 8);
insert into contains values(46, '00013', 9);
insert into contains values(41, '00012', 3);
insert into contains values(48, '00023', 3);
insert into contains values(72, '00049', 2);
insert into contains values(72, '00037', 7);
insert into contains values(50, '00011', 2);
insert into contains values(77, '00030', 2);
insert into contains values(54, ' 00016', 9);
insert into contains values(62, '00034', 8);
insert into contains values(65, '00019', 7);
insert into contains values(58, '00023', 3);
insert into contains values(72, '00003', 6);
insert into contains values(50, '00038', 8);
insert into contains values(60, '00046', 3);
insert into contains values(80, '00046', 8);
insert into contains values(61, '00038', 6);
insert into contains values(65, '00046', 10);
insert into contains values(61, '00001', 7);
insert into contains values(43, '00003', 3);
insert into contains values(64, '00042', 1);
insert into contains values(65, '00035', 3);
insert into contains values(51, '00010', 7);
insert into contains values(41, '00044', 4);
```

```
insert into contains values(71, '00002', 10);
insert into contains values(42, '00015', 6);
insert into contains values(74, '00008', 2);
insert into contains values(68, '00018', 9);
insert into contains values(62, '00033', 9);
insert into contains values(63, '00038', 2);
insert into contains values(43, '00016', 6);
insert into contains values(62, '00012', 1);
insert into contains values(69, '00001', 5);
insert into contains values(56, '00013', 8);
insert into contains values(57, '00037', 10);
insert into contains values(75, '00039', 8);
insert into contains values(74, '00017', 6);
insert into contains values(73, '00040', 3);
insert into contains values(55, '00010', 8);
insert into contains values(52, '00014', 2);
insert into contains values(65, '00025', 1);
insert into contains values(74, '00029', 1);
insert into contains values(62, '00038', 1);
insert into contains values(52, '00004', 8);
insert into contains values(76, '00023', 4);
insert into contains values(73, '00050', 1);
insert into contains values(78, '00038', 6);
insert into contains values(61, '00024', 10);
insert into contains values(51, '00013', 9);
insert into contains values(61, '00039', 1);
insert into contains values(61, '00046', 2);
insert into contains values(62, '00049', 1);
insert into contains values(62, '00050', 1);
insert into contains values(63, '00035', 3);
insert into contains values(64, '00016', 1);
insert into contains values(64, '00015', 2);
insert into contains values(65, '00005', 1);
insert into contains values(65, '00014', 1);
insert into contains values(65, '00017', 4);
insert into contains values(66, '00041', 1);
insert into contains values(66, '00040', 1);
insert into contains values(66, '00026', 1);
insert into contains values(66, '00007', 1);
```

```
insert into contains values(67, '00034', 2);
insert into contains values(68, '00042', 5);
insert into contains values(69, '00027', 3);
insert into contains values(69, '00033', 1);
insert into contains values(70, '00015', 6);
insert into contains values(70, '00012', 5);
insert into contains values(71, '00025', 2);
insert into contains values(71, '00008', 2);
insert into contains values(71, '00037', 1);
insert into contains values(71, '00044', 1);
insert into contains values(71, '00021', 2);
insert into contains values(71, '00023', 1);
insert into contains values(72, '00031', 1);
insert into contains values(73, '00006', 1);
insert into contains values(74, '00019', 2);
insert into contains values(74, '00018', 1);
insert into contains values(74, '00015', 1);
insert into contains values(75, '00013', 1);
insert into contains values(75, '00001', 1);
insert into contains values(76, '00010', 1);
insert into contains values(77, '00022', 1);
insert into contains values(78, '00020', 1);
insert into contains values(78, '00031', 1);
insert into contains values(79, '00036', 3);
insert into contains values(79, '00003', 2);
insert into contains values(79, '00045', 1);
insert into contains values(80, '00048', 1);
insert into contains values(81, '0 0023', 1);
insert into contains values(82, '00011', 1);
insert into contains values(83, '00012', 1);
insert into contains values(83, '00011', 1);
insert into contains values(84, '00028', 1);
insert into contains values(84, '00029', 3);
insert into contains values(85, '00009', 2);
insert into contains values(86, '00004', 1);
insert into contains values(86, '00027', 2);
insert into contains values(86, '00016', 1);
insert into contains values(86, '00030', 1);
insert into contains values(87, '00004', 1);
```

```
insert into contains values(88, '00004', 1);
insert into contains values(89, '00036', 4);
insert into contains values(89, '00024', 1);
insert into contains values(90, '00016', 1);
insert into contains values(90, '00030', 1);
```

```
insert into rated values(1, '00001', 5, '2018-01-31');
insert into rated values(2, '00009', 1, '2018-10-25');
insert into rated values(3, '00039', 4, '2017-05-13');
insert into rated values(4, '00004', 4, '2019-03-23');
insert into rated values(5, '00007', 2, '2018-11-09');
insert into rated values(6, '00008', 4, '2018-01-31');
insert into rated values(7, '00009', 1, '2017-01-06');
insert into rated values(8, '00001', 5, '2017-01-18');
insert into rated values(9, '00005', 4, '2018-10-04');
insert into rated values(1, '00005', 4, '2018-03-07');
insert into rated values(2, '00022', 5, '2017-04-13');
insert into rated values(4, '00001', 3, '2019-02-18');
insert into rated values(5, '00028', 3, '2017-01-07');
insert into rated values(6, '00017', 5, '2017-05-19');
insert into rated values(7, '00004', 4, '2016-09-26');
insert into rated values(8, '00003', 3, '2018-05-04');
insert into rated values(3, '00018', 3, '2017-01-07');
insert into rated values(5, '00029', 1, '2017-12-09');
insert into rated values(1, '00006', 4, '2017-04-19');
insert into rated values(6, '00019', 5, '2017-01-23');
insert into rated values(8, '00005', 3, '2018-03-15');
insert into rated values(9, '00036', 3, '2018-01-08');
insert into rated values(5, '00031', 5, '2019-01-22');
insert into rated values(3, '00011', 2, '2018-03-17');
insert into rated values(5, '00004', 3, '2018-03-03');
insert into rated values(7, '00010', 2, '2018-01-03');
insert into rated values(9, '00039', 2, '2017-03-08');
insert into rated values(1, '00009', 2, '2017-01-13');
insert into rated values(4, '00027', 4, '2017-04-05');
```


insert into rated values(2,'00027',4,'2017-06-18');
insert into rated values(1,'00015',3,'2017-11-30');
insert into rated values(6,'00021',3,'2019-04-27');
insert into rated values(3,'00010',1,'2018-11-30');
insert into rated values(8,'00016',1,'2018-05-07');
insert into rated values(8,'00024',4,'2018-02-12');
insert into rated values(4,'00030',2,'2017-03-03');
insert into rated values(3,'00006',4,'2016-10-20');
insert into rated values(5,'00034',4,'2018-07-13');
insert into rated values(2,'00032',2,'2019-03-19');
insert into rated values(2,'00034',3,'2017-08-30');
insert into rated values(8,'00031',3,'2017-01-07');
insert into rated values(6,'00023',1,'2016-09-30');
insert into rated values(12,'00001',2,'2018-10-14');
insert into rated values(11,'00003',4,'2018-05-08');
insert into rated values(10,'00003',2,'2017-01-02');
insert into rated values(10,'00005',1,'2017-06-13');
insert into rated values(11,'00019',4,'2017-08-17');
insert into rated values(12,'00015',3,'2017-10-04');
insert into rated values(12,'00020',2,'2018-01-17');
insert into rated values(12,'00025',4,'2017-09-08');
insert into rated values(13,'00050',5,'2019-02-02');
insert into rated values(1,'00022',1,'2019-03-05');
insert into rated values(2,'00037',3,'2017-08-05');
insert into rated values(3,'00005',5,'2018-06-07');
insert into rated values(4,'00026',1,'2019-04-09');
insert into rated values(5,'00037',4,'2017-07-12');
insert into rated values(6,'00025',2,'2017-01-07');
insert into rated values(7,'00011',3,'2017-08-31');
insert into rated values(8,'00033',5,'2017-10-04');
insert into rated values(9,'00041',4,'2017-01-17');
insert into rated values(1,'00043',1,'2017-05-02');
insert into rated values(2,'00006',4,'2019-01-10');
insert into rated values(4,'00049',3,'2016-10-31');
insert into rated values(5,'00039',1,'2016-11-14');
insert into rated values(6,'00027',3,'2016-12-10');
insert into rated values(7,'00013',3,'2019-03-15');
insert into rated values(8,'00037',5,'2018-01-17');
insert into rated values(3,'00003',4,'2018-11-02');

insert into rated values(5,'00048',3,'2017-05-03');
insert into rated values(1,'00047',5,'2018-05-30');
insert into rated values(6,'00033',5,'2019-04-18');
insert into rated values(8,'00040',5,'2019-03-24');
insert into rated values(9,'00047',3,'2018-05-31');
insert into rated values(3,'00032',1,'2017-01-08');
insert into rated values(5,'00043',2,'2019-01-29');
insert into rated values(7,'00014',5,'2018-07-07');
insert into rated values(9,'00049',4,'2019-03-30');
insert into rated values(1,'00034',4,'2019-02-24');
insert into rated values(4,'00005',2,'2019-04-30');
insert into rated values(2,'00040',5,'2017-04-15');
insert into rated values(1,'00050',3,'2017-03-02');
insert into rated values(6,'00035',4,'2017-02-04');
insert into rated values(3,'00022',3,'2018-03-17');
insert into rated values(8,'00042',3,'2019-01-16');
insert into rated values(8,'00044',3,'2018-06-09');
insert into rated values(4,'00044',5,'2019-01-04');
insert into rated values(3,'00002',3,'2019-03-04');
insert into rated values(5,'00050',5,'2018-04-02');
insert into rated values(2,'00043',4,'2018-06-17');
insert into rated values(2,'00025',5,'2018-12-02');
insert into rated values(8,'00047',4,'2018-08-03');
insert into rated values(6,'00037',3,'2018-10-13');
insert into rated values(12,'00030',4,'2018-11-15');
insert into rated values(11,'00022',1,'2018-10-07');
insert into rated values(10,'00007',2,'2019-03-09');
insert into rated values(10,'00010',5,'2019-04-17');
insert into rated values(11,'00004',4,'2016-10-10');
insert into rated values(12,'00047',2,'2018-11-15');
insert into rated values(12,'00049',3,'2017-12-07');
insert into rated values(12,'00045',4,'2018-11-03');
insert into rated values(13,'00001',5,'2019-03-15');
insert into rated values(1,'00033',3,'2019-02-13');
insert into rated values(2,'00049',5,'2017-10-01');
insert into rated values(15,'00001',1,'2016-01-01');
insert into rated values(16,'00002',2,'2016-02-02');
insert into rated values(17,'00003',3,'2016-03-03');
insert into rated values(18,'00004',4,'2016-04-04');


```
insert into rated values(19,'00005',5,'2016-05-05');
insert into rated values(20,'00006',1,'2016-06-06');
insert into rated values(21,'00007',2,'2016-07-07');
insert into rated values(22,'00008',3,'2016-08-08');
insert into rated values(23,'00009',4,'2016-09-09');
insert into rated values(24,'00010',5,'2016-10-10');
insert into rated values(14,'00011',1,'2016-11-11');
insert into rated values(15,'00012',2,'2016-11-11');
insert into rated values(16,'00013',3,'2016-01-02');
insert into rated values(17,'00014',4,'2016-03-02');
insert into rated values(18,'00015',5,'2016-04-02');
insert into rated values(19,'00016',1,'2016-05-02');
insert into rated values(20,'00017',2,'2016-06-02');
insert into rated values(21,'00018',3,'2016-07-02');
insert into rated values(22,'00019',4,'2016-08-02');
insert into rated values(23,'00020',5,'2016-09-02');
insert into rated values(24,'00021',1,'2016-10-02');
insert into rated values(14,'00022',2,'2016-11-02');
insert into rated values(15,'00023',3,'2016-12-02');
insert into rated values(16,'00024',4,'2016-01-17');
insert into rated values(17,'00025',5,'2016-02-17');
insert into rated values(18,'00026',1,'2017-03-17');
insert into rated values(19,'00027',2,'2017-04-17');
insert into rated values(20,'00028',3,'2017-05-17');
insert into rated values(21,'00029',4,'2017-06-17');
insert into rated values(22,'00030',5,'2017-07-17');
insert into rated values(23,'00031',1,'2017-08-17');
insert into rated values(24,'00032',2,'2017-09-17');
insert into rated values(14,'00033',3,'2017-10-17');
insert into rated values(15,'00034',4,'2017-01-22');
insert into rated values(16,'00035',5,'2017-02-22');
insert into rated values(17,'00036',1,'2017-03-22');
insert into rated values(18,'00037',2,'2017-04-22');
insert into rated values(19,'00038',3,'2017-05-22');
insert into rated values(20,'00039',4,'2017-06-22');
insert into rated values(21,'00040',5,'2017-07-22');
insert into rated values(22,'00041',1,'2017-08-22');
insert into rated values(23,'00042',2,'2017-09-22');
insert into rated values(24,'00043',3,'2017-10-22');
```

```
insert into rated values(14,'00044',4,'2017-11-22');
insert into rated values(15,'00045',5,'2017-12-22');
insert into rated values(16,'00046',1,'2017-01-08');
insert into rated values(17,'00047',2,'2017-02-08');
insert into rated values(18,'00048',3,'2017-03-08');
insert into rated values(19,'00049',4,'2017-04-08');
insert into rated values(20,'00050',5,'2017-05-08');
insert into rated values(21,'00001',1,'2018-06-08');
insert into rated values(22,'00002',2,'2018-07-08');
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insert into rated values(24,'00004',4,'2018-09-08');
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insert into product_category values('00001', 'electronics');
insert into product_category values('00001', 'specialty');
insert into product_category values('00001', 'gourmet');
insert into product_category values('00001', 'book');
insert into product_category values('00001', 'baby');
insert into product_category values('00002', 'educational');
insert into product_category values('00002', 'toys');
insert into product_category values('00002', 'clothing');
insert into product_category values('00002', 'specialty');
insert into product_category values('00003', 'baby');
insert into product_category values('00003', 'educational');
insert into product_category values('00003', 'toys');
insert into product_category values('00004', 'electronics');
insert into product_category values('00004', 'educational');
insert into product_category values('00004', 'specialty');
insert into product_category values('00005', 'electronics');
insert into product_category values('00005', 'specialty');
insert into product_category values('00005', 'food');
insert into product_category values('00006', 'specialty');
insert into product_category values('00006', 'electronics');
insert into product_category values('00006', 'educational');
insert into product_category values('00006', 'clothing');
insert into product_category values('00006', 'food');
insert into product_category values('00007', 'educational');
insert into product_category values('00008', 'baby');
insert into product_category values('00008', 'electronics');
insert into product_category values('00008', 'gourmet');
insert into product_category values('00009', 'baby');
insert into product_category values('00009', 'gourmet');
```



```
insert into product_category values('00009', 'food');
insert into product_category values('00009', 'toys');
insert into product_category values('00010', 'gourmet');
insert into product_category values('00010', 'specialty');
insert into product_category values('00010', 'food');
insert into product_category values('00010', 'educational');
insert into product_category values('00010', 'clothing');
insert into product_category values('00011', 'educational');
insert into product_category values('00011', 'toys');
insert into product_category values('00011', 'electronics');
insert into product_category values('00011', 'clothing');
insert into product_category values('00012', 'book');
insert into product_category values('00012', 'specialty');
insert into product_category values('00012', 'food');
insert into product_category values('00012', 'clothing');
insert into product_category values('00013', 'electronics');
insert into product_category values('00013', 'baby');
insert into product_category values('00013', 'food');
insert into product_category values('00013', 'specialty');
insert into product_category values('00013', 'book');
insert into product_category values('00013', 'gourmet');
insert into product_category values('00014', 'educational');
insert into product_category values('00014', 'electronics');
insert into product_category values('00014', 'specialty');
insert into product_category values('00015', 'toys');
insert into product_category values('00015', 'baby');
insert into product_category values('00015', 'educational');
insert into product_category values('00016', 'electronics');
insert into product_category values('00016', 'food');
insert into product_category values('00016', 'specialty');
insert into product_category values('00016', 'gourmet');
insert into product_category values('00017', 'electronics');
insert into product_category values('00017', 'specialty');
insert into product_category values('00017', 'educational');
insert into product_category values('00018', 'electronics');
insert into product_category values('00018', 'specialty');
insert into product_category values('00018', 'food');
insert into product_category values('00018', 'gourmet');
insert into product_category values('00019', 'baby');
```

```
insert into product_category values('00019', 'clothing');
insert into product_category values('00020', 'books');
insert into product_category values('00020', 'educational');
insert into product_category values('00020', 'baby');
insert into product_category values('00021', 'educational');
insert into product_category values('00021', 'specialty');
insert into product_category values('00021', 'gourmet');
insert into product_category values('00022', 'food');
insert into product_category values('00022', 'electronics');
insert into product_category values('00022', 'gourmet');
insert into product_category values('00023', 'specialty');
insert into product_category values('00023', 'electronics');
insert into product_category values('00024', 'clothing');
insert into product_category values('00024', 'specialty');
insert into product_category values('00025', 'educational');
insert into product_category values('00025', 'electronics');
insert into product_category values('00025', 'toys');
insert into product_category values('00025', 'baby');
insert into product_category values('00026', 'electronics');
insert into product_category values('00027', 'specialty');
insert into product_category values('00028', 'specialty');
insert into product_category values('00029', 'specialty');
insert into product_category values('00030', 'electronics');
insert into product_category values('00031', 'toys');
insert into product_category values('00032', 'electronics');
insert into product_category values('00033', 'electronics');
insert into product_category values('00034', 'clothing');
insert into product_category values('00035', 'toys');
insert into product_category values('00036', 'toys');
insert into product_category values('00037', 'electronics');
insert into product_category values('00038', 'book');
insert into product_category values('00026', 'toys');
insert into product_category values('00030', 'specialty');
insert into product_category values('00031', 'specialty');
insert into product_category values('00032', 'specialty');
insert into product_category values('00035', 'baby');
insert into product_category values('00036', 'baby');
insert into product_category values('00038', 'baby');
insert into product_category values('00030', 'educational');
```

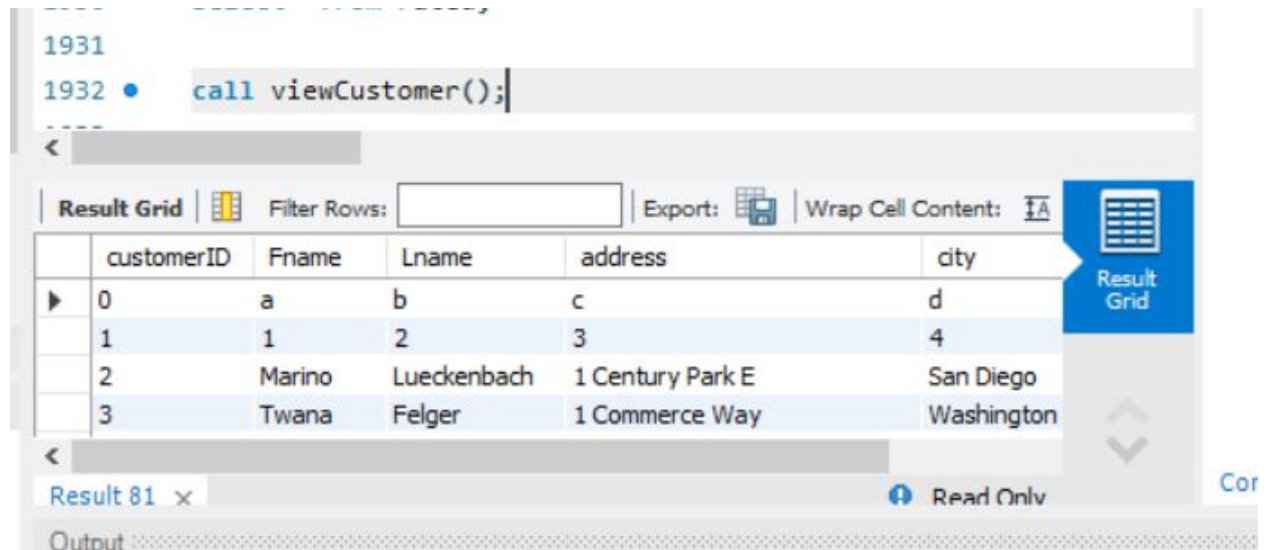
```
insert into product_category values('00038', 'educational');
insert into product_category values('00039', 'educational');
insert into product_category values('00039', 'book');
insert into product_category values('00040', 'educational');
insert into product_category values('00040', 'electronics');
insert into product_category values('00040', 'speciality');
insert into product_category values('00041', 'educational');
insert into product_category values('00041', 'electronics');
insert into product_category values('00041', 'speciality');
insert into product_category values('00042', 'baby');
insert into product_category values('00042', 'food');
insert into product_category values('00043', 'toys');
insert into product_category values('00043', 'educational');
insert into product_category values('00043', 'electronics');
insert into product_category values('00044', 'electronics');
insert into product_category values('00044', 'speciality');
insert into product_category values('00044', 'educational');
insert into product_category values('00045', 'electronics');
insert into product_category values('00045', 'toys');
insert into product_category values('00045', 'educational');
insert into product_category values('00045', 'food');
insert into product_category values('00046', 'toys');
insert into product_category values('00046', 'educational');
insert into product_category values('00047', 'toys');
insert into product_category values('00047', 'electronics');
insert into product_category values('00047', 'educational');
insert into product_category values('00048', 'toys');
insert into product_category values('00048', 'educational');
insert into product_category values('00048', 'speciality');
insert into product_category values('00049', 'toys');
insert into product_category values('00049', 'educational');
insert into product_category values('00049', 'electronics');
insert into product_category values('00049', 'baby');
insert into product_category values('00050', 'toys');
insert into product_category values('00050', 'educational');
insert into product_category values('00050', 'book');
insert into product_category values('00050', 'baby');
```

A system with the following capabilities:

Through the **Administrative** component:

- a. Ability to view, add, remove and modify customer information.

```
drop procedure if exists viewCustomer;
delimiter //
create procedure viewCustomer()
begin
    select customerID, Fname, Lname, address, city, state, zip
    from customer
    order by customerID;
end//
delimiter ;
call viewCustomer();
```



The screenshot shows a database management tool interface. At the top, a SQL query is entered in a text area: `1931` (on a new line) and `1932 • call viewCustomer();` (on a new line). Below the query area, there is a toolbar with buttons for 'Result Grid', 'Filter Rows', 'Export', and 'Wrap Cell Content'. The 'Result Grid' button is highlighted. Below the toolbar, a table of results is displayed. The table has six columns: customerID, Fname, Lname, address, city, and state. The data is as follows:

customerID	Fname	Lname	address	city	state
0	a	b	c	d	
1	1	2	3	4	
2	Marino	Lueckenbach	1 Century Park E	San Diego	
3	Twana	Felger	1 Commerce Way	Washington	

At the bottom of the screenshot, there is a tab labeled 'Result 81' and a 'Read Only' status indicator.

```
drop procedure if exists addCustomer;
delimiter //
create procedure addCustomer(id int, fname varchar(20), lname
varchar(20), address varchar(30), city varchar(20), state char(2), zip
char(5))
begin
    insert into customer values(customerID, Fname, Lname, address, city,
state, zip);
end//
delimiter ;
call addCustomer(0, 'Xiaohui', 'Xie', '123123aaa', 'bb', 'NJ', '11111');
```

call viewCustomer();

	customerID	Fname	Lname	address	city	state	zip
0		Xiaohui	Xie	123123aaa	bb	NJ	11111
1		Allene	Iturbide	1 Central Ave	Portage	WI	54481
2		Marino	Lueckenbach	1 Century Park E	San Diego	CA	92110
3		Twana	Felger	1 Commerce Way	Washington	OR	97224
4		Salena	Karpel	1 Garfield Ave #1	Commerce Way	OH	44707

drop procedure if exists dropCustomer;

delimiter //

create procedure dropCustomer(id int)

begin

delete from customer where customerID = id;

end//

delimiter ;

call dropCustomer(0);

call viewCustomer();

```
98 • call dropCustomer(0);
```

```
99 • call viewCustomer();
```

	customerID	Fname	Lname	address	city	state	zip
1		Allene	Iturbide	1 Central Ave	Portage	WI	54481
2		Marino	Lueckenbach	1 Century Park E	San Diego	CA	92110
3		Twana	Felger	1 Commerce Way	Washington	OR	97224
4		Salena	Karpel	1 Garfield Ave #7	Stark	OH	44707
5		Arminda	Parvis	1 Huntwood Ave	Maricopa	AZ	85017

drop procedure if exists modCustomer;

delimiter //

create procedure modCustomer(id int, fn varchar(20), ln varchar(20),

addr varchar(30), ct varchar(20), st char(2), ziip char(5))

begin

update customer set Fname = fn, Lname = ln, address = addr, city = ct,
state = st, zip = ziip where customerID = id;

end//

delimiter ;

call addCustomer(0, 'a', 'b', 'c', 'd', 'ee', '11111');

call modCustomer(1, '1', '2', '3', '4', 'NJ', '22222');

call viewCustomer();


```

1507 delimiter ;
1508 • call addCustomer(0, 'a', 'b', 'c', 'd', 'ee', '11111');
1509 • call modCustomer(1, '1', '2', '3', '4', 'NJ', '22222');
1510 • call viewCustomer();

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

	customerID	Fname	Lname	address	city	state	zip
▶	0	a	b	c	d	ee	11111
	1	1	2	3	4	NJ	22222
	2	Marino	Lueckenbach	1 Century Park E	San Diego	CA	92110
	3	Twana	Felger	1 Commerce Way	Washington	OR	97224
	4	Salena	Karpel	1 Garfield Ave #7	Stark	OH	44707

b. Ability to view, add, remove and modify supplier information.

```

drop procedure if exists viewSupplier;
delimiter //
create procedure viewSupplier()
begin
    select Sname, city, zip
    from supplier
    order by Sname;
end//
delimiter ;
call viewSupplier();

```

```
1521 • call viewSupplier();
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

	Sname	city	zip
▶	Akustica	Pittsburgh	15203
	Aleris International Inc.	Beachwood	44122
	Bel-Art Products	Wayne	07470
	C. C. Filson	Seattle	98124
	Cambridge Engineered Solutions	New Orleans	70116

```

drop procedure if exists addSupplier;
delimiter //
create procedure addSupplier(sn varchar(31), ct varchar(15), ziip
char(5))

```



```

begin
    insert into supplier values(sn, ct, ziip);
end//
delimiter ;
call addSupplier('a', 'nj', '11111');
call viewSupplier();

```

```

.530 • call addSupplier('a', 'nj', '11111');
.531 • call viewSupplier();

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	Sname	city	zip
▶	a	nj	11111
	Akustica	Pittsburgh	15203
	Aleris International Inc.	Beachwood	44122
	Bel-Art Products	Wayne	07470
	C. C. Filson	Seattle	98124

Result 18 x

```

drop procedure if exists dropSupplier;
delimiter //
create procedure dropSupplier(sn varchar(31))
begin
    delete from supplier where Sname = sn;
end//
delimiter ;
call dropSupplier('a');
call viewSupplier();

```

```

1540 • call dropSupplier('a');
1541 • call viewSupplier();

```

<

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	Sname	city	zip
▶	Akustica	Pittsburgh	15203
	Aleris International Inc.	Beachwood	44122
	Bel-Art Products	Wayne	07470
	C. C. Filson	Seattle	98124
	Cambridge Engineered Solutions	New Orleans	70116

Result 21 v

```

drop procedure if exists modSupplier;
delimiter //
create procedure modSupplier(sn varchar(31), ct varchar(15), ziip
char(5))
begin
    update supplier set city = ct, zip = ziip where Sname = sn;
end//
delimiter ;
call addSupplier('a', 'nj', '11111');
call modSupplier('a', 'aa', 'aaaaa');
call viewSupplier();

```

```

1550 • call addSupplier('a', 'nj', '11111');
1551 • call modSupplier('a', 'aa', 'aaaaa');
1552 • call viewSupplier();

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

	Sname	city	zip
▶	a	aa	aaaaa
	Akustica	Pittsburgh	15203
	Aleris International Inc.	Beachwood	44122
	Bel-Art Products	Wayne	07470
	C. C. Filson	Seattle	98124

c. Ability to view, add, remove and modify product information.

```

drop procedure if exists getProduct;
delimiter //
create procedure getProduct()
begin
    select UPC, Pname, price, Sname, amount, reorderlevel
    from product
    order by UPC;
end//
delimiter ;
call getProduct();

```

1563 • `call getProduct();`

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

	UPC	Pname	price	Sname	amount	reorderlevel
▶	00001	Xtreme Graphics 5000	399.99	Melmarc Products Inc.	50	10
	00002	Sure Feet Running Shoes	59.99	NK Apparel	6	30
	00003	Happy Smiles Face Paints	19.99	Bel-Art Products	3	75
	00005	Super-Sensor Door Opener	120.00	Motion Enhanced Technology	4	2
	00006	No More Stink Socks	9.99	NK Apparel	134	60

```

drop procedure if exists addProduct;
delimiter //
create procedure addProduct(uupc char(5), pn varchar(30), pric
decimal(6,2), sn varchar(31), am int, rl int)
begin
    insert into product values(uupc, pn, pric, sn, am, rl);
end//
delimiter ;
call addProduct('11111', 'aa', 111.11, 'a', 1, 2);
call viewProduct();

```

1572 • `call addProduct('11111', 'a', 111.11, 'a', 1, 2);`
 1573 • `call getProduct();`

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

	UPC	Pname	price	Sname	amount	reorderlevel
	00047	Learn To Drive Game	50.00	Melmarc Products Inc.	200	25
	00048	X-Ray Goggles	100.00	ProtoVision	14	15
	00049	Babys First Game Console	150.00	Motion Enhanced Technology	100	20
	00050	Baby Learns German	50.00	Aleris International Inc.	175	20
	11111	a	111.11	a	1	2

```

drop procedure if exists dropProduct;
delimiter //
create procedure dropProduct(sn varchar(31))
begin
    delete from product where Sname = sn;
end//
delimiter ;
call dropProduct('a');

```

call viewProduct();



```
1582 • call dropProduct('a');
```

```
1583 • call getProduct();
```

```
1584
```

```
1585
```

```
1586
```

<						
Result Grid						
Filter Rows: <input type="text"/>						
Export:  Wrap Cell Content: 						
UPC	Pname	price	Sname	amount	reorderlevel	
00046	Math Card Game	10.00	HB Products LLC	13	20	
00047	Learn To Drive Game	50.00	Melmarc Products Inc.	200	25	
00048	X-Ray Goggles	100.00	ProtoVision	14	15	
00049	Babys First Game Console	150.00	Motion Enhanced Technology	100	20	
00050	Baby Learns German	50.00	Aleris International Inc.	175	20	

drop procedure if exists modProduct;

delimiter //

create procedure modProduct(uupc char(5), pn varchar(30), pric
decimal(6,2), sn varchar(31), am int, rl int)

begin

update product set UPC = uupc, Pname = pn, price = pric, amount = am,
reorderlevel = rl where Sname = sn;

end//

delimiter ;

call addProduct('11111', 'aa', 111.11, 'a', 1, 2);



call modProduct('11111', 'a', 222.22, 'a', 2, 2);

call getProduct();

```
1592 • call addProduct('11111', 'aa', 111.11, 'a', 1, 2);
```

```
1593 • call modProduct('11111', 'a', 222.22, 'a', 2, 2);
```

```
1594 • call getProduct();
```

<						
Result Grid						
Filter Rows: <input type="text"/>						
Export:  Wrap Cell Content: 						
UPC	Pname	price	Sname	amount	reorderlevel	
00047	Learn To Drive Game	50.00	Melmarc Products Inc.	200	25	
00048	X-Ray Goggles	100.00	ProtoVision	14	15	
00049	Babys First Game Console	150.00	Motion Enhanced Technology	100	20	
00050	Baby Learns German	50.00	Aleris International Inc.	175	20	
11111	a	222.22	a	2	2	

d. Ability to view inventory.

```

drop procedure if exists viewInventory;
delimiter //
create procedure viewInventory()
begin
    select Pname, amount
    from product
    order by Pname;
end//
delimiter ;
call viewInventory();

```

1605 • `call viewInventory();`
1606

<

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

	UPC	Pname	Sname	amount
▶	11111	a	a	2
	00028	AC Unit	Large System Distributors	10
	00050	Baby Learns German	Aleris International Inc.	175
	00049	Babys First Game Console	Motion Enhanced Technology	100
	00040	Basic Telescope	Seatec Astronomy	10

Result 29 x Read Only

e. Ability to modify inventory (as a result of re-ordering).

```

drop procedure if exists modInventory;
delimiter //
create procedure modInventory(uupc char(5))
begin
    update product set amount = reorderlevel where UPC = uupc and
    amount < reorderlevel
    order by UPC;
end//
delimiter ;
call modInventory ('11111', 'a', 'a', 100);
call viewInventory();

```



```

1680 • call modInventory ('11111');
1681 • call viewInventory();
1682

```

Result Grid

UPC	Pname	Sname	amount
11111	a	a	100
00028	AC Unit	Large System Distributors	10
00050	Baby Learns German	Aleris International Inc.	175
00049	Babys First Game Console	Motion Enhanced Technology	100
00040	Basic Telescope	Seatec Astronomy	10
00008	Bass Booster Subwoofers	Melmarc Products Inc.	3
00020	Book of Colors and Numbers	C. C. Filson	70
00039	Calculus Book	HB Products LLC	250

Result 37 x

f. Ability to load information from flat files.

```

LOAD DATA LOCAL INFILE 'c:/new 2.csv'
INTO TABLE product
FIELDS TERMINATED BY ','
LINES TERMINATED BY '\n';

```

```
select * from product;
```

Result Grid

UPC	Pname	price	Sname	am
00001	Xtreme Graphics 5000	399.99	Melmarc Products Inc.	50
00002	Sure Feet Running Shoes	59.99	NK Apparel	6
00003	Happy Smiles Face Paints	19.99	Bel-Art Products	3
00005	Super-Sensor Door Opener	120.00	Motion Enhanced Technology	4
00006	No More Stink Socks	9.99	NK Apparel	134

product 75 x

Apply Revert Context

Through the **Customer** component:

g. Ability to place an order.

```

drop procedure if exists placeOrder;
delimiter //

```



```

create procedure placeOrder(id int, odate char(10), sdate char(10), type
varchar(10), cn varchar(20), cusID int)
begin
    insert into orders values(id, odate, sdate, type, cn, cusID);
end//
delimiter ;
call placeOrder(0, '2020-01-01', '2020-02-02', 'VISA', '123123', 0);

```

1922 • `call placeOrder(0, '2020-01-01', '2020-02-02', 'VISA', '123123', 0);`
 1923 • `select * from orders;`

<

Result Grid Filter Rows: Edit: Export/Import Result Grid

	orderID	orderdate	shipdate	payment_type	CCN	customerID
▶	0	2020-01-01	2020-02-02	VISA	123123	0
	1	2018-03-13	2018-03-14	DISCOVER	9164372000812465	40
	2	2018-05-28	2018-05-30	DISCOVER	6012768542759725	47
	3	2017-04-30	2017-05-01	VISA	8347756029370204	30
	4	2017-04-29	NULL	VISA	1114002556361579	3

orders 76 x [Conte](#)

h. Ability to track an order.

```

drop procedure if exists trackOrder;
delimiter //
create procedure trackOrder(id int)
begin
    select orderID, orderdate, shipdate, payment_type, CCN, customerID
    from orders
    where orderID = id
    order by orderID;
end//
delimiter ;
call trackOrder(0);

```

```

1922 • call placeOrder(0, '2020-01-01', '2020-02-02', 'VISA', '123123');
1923 • select * from orders;

```

	orderID	orderdate	shipdate	payment_type	CCN	custo
▶	0	2020-01-01	2020-02-02	VISA	123123	0
	1	2018-03-13	2018-03-14	DISCOVER	9164372000812465	40
	2	2018-05-28	2018-05-30	DISCOVER	6012768542759725	47
	3	2017-04-30	2017-05-01	VISA	8347756029370204	30
	4	2017-04-29	NULL	VISA	1114002556361579	3

orders 76 x Apply Revert Conte

- i. Ability to view, add and remove products on the wish list.

```

drop procedure if exists viewWish;
delimiter //
create procedure viewWish()
begin
    select customerID, UPC
    from wishes
    order by customerID;
end//
delimiter ;
call viewWish();

```

1927 • `call viewWish();`

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Result Grid

	customerID	UPC
▶	1	00041
	1	00042
	1	00043
	1	00044
	1	00045

Result 78 x Read Only

```

drop procedure if exists addWish;
delimiter //
create procedure addWish(id int, uupc char(5))
begin
    insert into wishes values (id, uupc);
end//
delimiter ;
call addWish(2, '00001');
call viewWish();

```

1928 • `call viewWish();`

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Result Grid

	customerID	UPC
▶	1	00041
	1	00042
	1	00043
	1	00044
	1	00045

Result 79 x Read Only

```

drop procedure if exists dropWish;
delimiter //
create procedure dropWish(uupc char(5))
begin

```

```

delete from wishes where UPC = uupc;
end//
delimiter ;
call dropWish('00001');
call viewWish();

```

1927 • `call viewWish();`

Result Grid

Filter Rows: Export: Wrap Cell Content:

	customerID	UPC
▶	1	00041
	1	00042
	1	00043
	1	00044
	1	00045

Result 78 x Read Only

j. Ability to rate products.

```

drop procedure if exists rateP;
delimiter //
create procedure rateP(id int, uupc char(5), rt int, rtd date char(10))
begin
insert into rated values (id, uupc, rt, rtd);
end//
delimiter ;
call rateP(2, '00001', 5, '2020-03-03');
select * from rated;

```

1930 • `select* from rated;`

Result Grid

	customerID	UPC	rating	ratingdate
▶	1	00001	5	2018-01-31
	1	00005	4	2018-03-07
	1	00006	4	2017-04-19
	1	00009	2	2017-01-13
	1	00015	3	2017-11-30

rated 80 x

Apply Revert

2. The following reports:

Through the **Administrative** component:

- k. List of products whose inventory is at or below reorder level.

drop procedure if exists invenBelReord;

delimiter //

create procedure invenBelReord()

begin

select UPC, Pname, price, Sname, amount, reorderlevel

from product

where amount <= reorderlevel

order by UPC;

end//

delimiter ;

Call invenBelReord();

1714 • `call invenBelReord();`

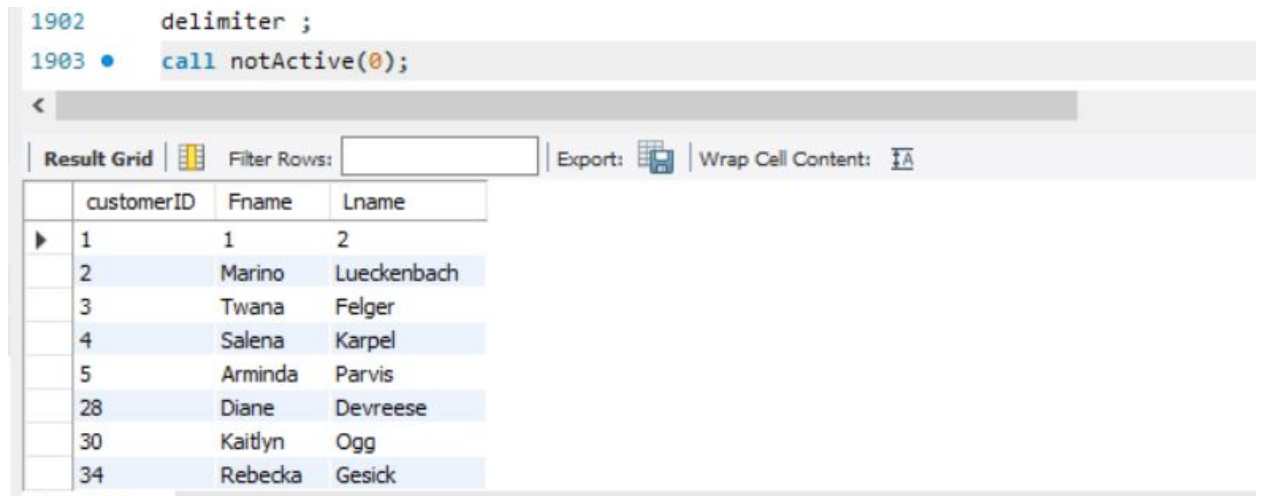
Result Grid

	UPC	Pname	price	Sname	amount	reorderlevel
▶	00002	Sure Feet Running Shoes	59.99	NK Apparel	6	30
	00003	Happy Smiles Face Paints	19.99	Bel-Art Products	3	75
	00008	Bass Booster Subwoofers	124.99	Melmarc Products Inc.	3	10
	00010	Sunshine Yellow	44.99	Bel-Art Products	10	15
	00015	Puzzle Blocks for Kids	19.99	HB Products LLC	0	30
	00017	Portable Motion Detector	50.00	Motion Enhanced Technology	5	10
	00022	Travel Coffee Maker	39.00	Cambridge Engineered Solutions	20	50
	00025	Talking Doll	25.00	Melmarc Products Inc.	12	15

Result 40 x

l. Customers who have not been "too active"(*) and for whom special offers should be made. #

```
drop procedure if exists notActive;
delimiter //
create procedure notActive(id int)
begin
    select customerID, Fname, Lname
    from customer
    where customerID in (select customerID
                        from orders
                        where orderdate < '2018-04-04');
end//
delimiter ;
call notActive();
```



1902 delimiter ;

1903 • call notActive(0);

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	customerID	Fname	Lname
▶	1	1	2
	2	Marino	Lueckenbach
	3	Twana	Felger
	4	Salena	Karpel
	5	Arminda	Parvis
	28	Diane	Devreese
	30	Kaitlyn	Ogg
	34	Rebecka	Gesick

m. List of products that are not selling "too well"(*), which might be offered as specials. #

```
drop procedure if exists notToowell;
delimiter //
create procedure notToowell(rupc char(5))
begin
    select UPC, Pname, price, Sname, amount, sum(quantity) as sumq
    from product left join contains using(UPC)
    group by UPC
```



```

having sumq < avg(sumq);
end//
delimiter ;
call notToowell('00001');

```

```

827 delimiter ;
828 • call notToowell('00001');
829

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

UPC	Pname	price	Sname	amount	sumq
00011	Job Hunter Discount Suit	74.99	NK Apparel	44	14
00029	Ventilation Filter	22.00	Kaman Industrial Technologies	0	7
00032	Thermal Sensor	350.00	Hadden Industries	15	22
00043	Leap Frog Tablet	100.00	Seatec Astronomy	100	3

Result 54

n. List of customers who have rated products that they did not buy.

```

drop procedure if exists notBuy()
delimiter //
create procedure notBuy()
begin
    select customerID, Fname, Lname, address, city, state, zip
    from customer
    where customerID in(select customerID
                        from rated)
    and customerID not in (select customerID
                          from orders)
    order by customerID;
end//
delimiter ;
call notBuy();

```

```

1840         order by customerID;
1841     end//
1842     delimiter ;
1843 • call notBuy();

```

1844

<

Result Grid



Filter Rows:

Export:



Wrap Cell Content: [IA](#)

	customerID	Fname	Lname	address	city	state	zip
▶	7	Joanne	Mathieu	1 N Harlem Ave #9	Essex	NJ	70503
	31	Sunny	Kownacki	2 Se 3rd Ave	Dallas	TX	75149
	33	Lili	Paskin	20113 4th Ave E	Hudson	NJ	71032
	43	Luis	Jurney	25 Se 176th Pl	Middlesex	MA	82138
	44	Rasheed	Sayaphon	251 Park Ave #979	Santa Clara	CA	95070

- o. List of highly rated products. #

```

drop procedure if exists highRate;
delimiter //
create procedure highRate(rt int)
begin
    select UPC, Pname, price, Sname, amount
    from product
    where UPC in (select UPC
                  from rated
                  where rating = (select max(rating)
                                   from rated))
    order by UPC;
end//
delimiter ;
call highRate(5);

```

```

388     end//
389     delimiter ;
390 •   call highRate(5);

```

Result Grid					
Filter Rows:			Export:	Wrap Cell Content: IA	
UPC	Pname	price	Sname	amount	
00001	Xtreme Graphics 5000	399.99	Melmarc Products Inc.	50	
00005	Super-Sensor Door Opener	120.00	Motion Enhanced Technology	4	
00010	Sunshine Yellow	44.99	Bel-Art Products	10	
00011	Job Hunter Discount Suit	74.99	NK Apparel	44	
00012	Head Secure Hard Hat	59.99	Grainger Industrial Supply	40	
00014	DG Camera	120.00	ProtoVision	150	
00015	Puzzle Blocks for Kids	19.99	HB Products LLC	0	
00017	Portable Motion Detector	50.00	Motion Enhanced Technology	5	

p. List of highly wished products. **#**

```

drop procedure if exists highWished;
create procedure highWished()
delimiter //
create procedure highWished(id int)
begin
    select UPC, Pname, price, Sname, count(customerID) as wishAmount
    from wishes left join product using(UPC)
    Group by UPC
    having wishAmount > avg(wishAmount);
end//
delimiter ;
call highWished(0);

```

```

55     delimiter ;
56 •   call highWished(0);
57

```

Result Grid					
Filter Rows:			Export:	Wrap Cell Content: IA	
UPC	Pname	price	Sname	wishAmount	
00002	Sure Feet Running Shoes	59.99	NK Apparel	4	
00003	Happy Smiles Face Paints	19.99	Bel-Art Products	9	
00005	Super-Sensor Door Opener	120.00	Motion Enhanced Technology	6	
00006	No More Stink Socks	9.99	NK Apparel	6	
00007	Far Out! Telescope	1099.99	Seatec Astronomy	6	

q. List of wished products that have never been bought by the customers who wish them.

```

drop procedure if exists Wishednotbuy()
delimiter //
create procedure Wishednotbuy()
begin
    select UPC, Pname, price, Sname
    from product
    where UPC in (select UPC
                  from wishes
                  where customerID in(select customerID
                                      from customer
                                      where customerID not in
                                      (select customerID
                                       from orders)))

    order by UPC;
end//
delimiter ;
call Wishednotbuy();

```

1875 • call Wishednotbuy();

<

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

	UPC	Pname	price	Sname
▶	00003	Happy Smiles Face Paints	19.99	Bel-Art Products
	00008	Bass Booster Subwoofers	124.99	Melmarc Products Inc.
	00009	Star Gazer Junior	39.99	Seatec Astronomy
	00011	Job Hunter Discount Suit	74.99	NK Apparel
	00012	Head Secure Hard Hat	59.99	Grainger Industrial Supply
	00013	The Overclocker: Extreme CPU	349.99	Melmarc Products Inc.
	00014	DG Camera	120.00	ProtoVision
	00015	Puzzle Blocks for Kids	19.99	HB Products LLC

Result 64 x

r. List of customers who did not rate any products they bought.

```



drop procedure if exists notRateAny;
delimiter //
create procedure notRateAny()
begin
    select customerID, Fname, Lname
    from customer
    where customerID in (select customerID

```

```

        from orders)
    and customerID not in (select customerID
        from rated)
    order by customerID;
end//
delimiter ;
call notRateAny();
1773 end//
1774 delimiter ;
1775 call notRateAny();

```

Result Grid | Filter Rows: | Export:  | Wrap Cell Content: 

	customerID	Fname	Lname
▶	0	a	b
	25	Paris	Wide
	49	Trinidad	Mcrae

Through the **Customer** component:

s. List of bestselling products. **#**

```

drop procedure if exists bestselling;
delimiter //
create procedure bestselling()
begin
    select UPC, Pname, price, Sname
    from product left join contains using(UPC)
    where count(quantity) = (select max(quantity) from contains)
    order by orderID;
end//
delimiter ;
call bestselling();

```

```

1750
1751 delimiter ;
1752 • call bestselling();
1753
1754
1755

```

<

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

	UPC	Pname	price	Sname
▶	00005	Super-Sensor Door Opener	120.00	Motion Enhanced Technology
	00009	Star Gazer Junior	39.99	Seatec Astronomy
	00011	Job Hunter Discount Suit	74.99	NK Apparel
	00031	Sunglasses	50.00	ProtoVision
	00030	Surface Pro 4	600.00	UCA Group Inc.
	00026	Telescope	300.00	Seatec Astronomy
	00012	Head Secure Hard Hat	59.99	Grainger Industrial Supply
	00033	Digital Clock	15.00	Motion Enhanced Technology

Result 43 x

t. A suggested list of products for each customer. (*)

```

drop procedure if exists suggestList;
create procedure suggestList()
begin
    select UPC, Pname, price, Sname
    from product left join rated using(UPC)
    where rating > 2 and price < 100;
end//
delimiter ;
call suggestList();

```


738 • `call suggestList();`

739

740

741

Result Grid						
Filter Rows:		Export:		Wrap Cell Content:		
UPC	Pname	price	Sname	amount	reorderlevel	
00001	Xtreme Graphics 5000	399.99	Melmarc Products Inc.	50	10	
00005	Super-Sensor Door Opener	120.00	Motion Enhanced Technology	4	2	
00010	Sunshine Yellow	44.99	Bel-Art Products	10	15	
00011	Job Hunter Discount Suit	74.99	NK Apparel	44	30	
00012	Head Secure Hard Hat	59.99	Grainger Industrial Supply	40	20	
00014	DG Camera	120.00	ProtoVision	150	20	
00015	Puzzle Blocks for Kids	19.99	HB Products LLC	0	30	
00017	Portable Motion Detector	50.00	Motion Enhanced Technology	5	10	