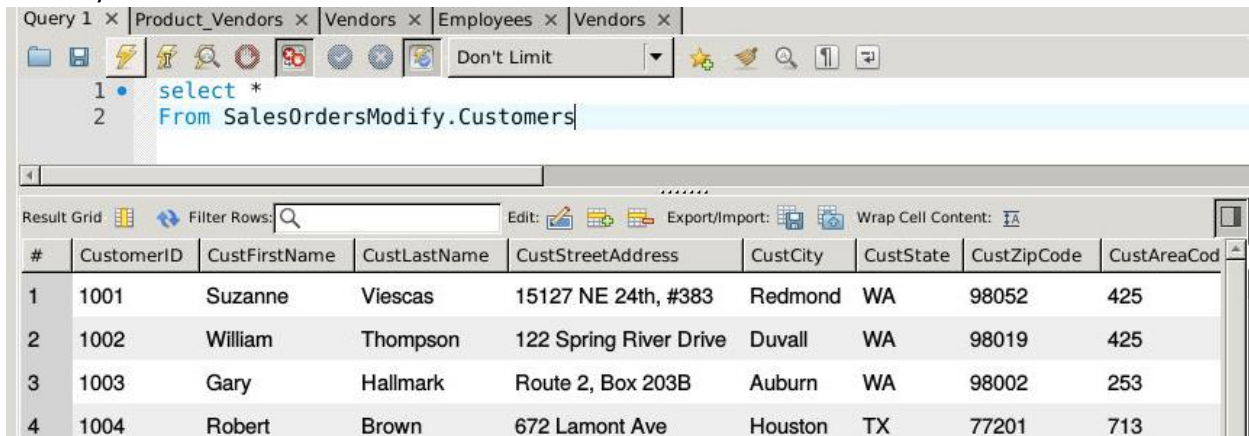


For this assignment, write queries using SQL to acquire data about customers, vendors, products, and employees in a fictitious sales database. These queries will cover many of the core aspects of writing SQL to produce data for reporting and analyzing information. There may be multiple ways to produce the same results, but ensure you are returning the requested fields.

Using the Sales Orders database, complete the queries below.

1. Show all the information on our customers.

a. Query:



Query 1 x Product_Vendors x Vendors x Employees x Vendors x

1 • select *
2 From SalesOrdersModify.Customers

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content: IA

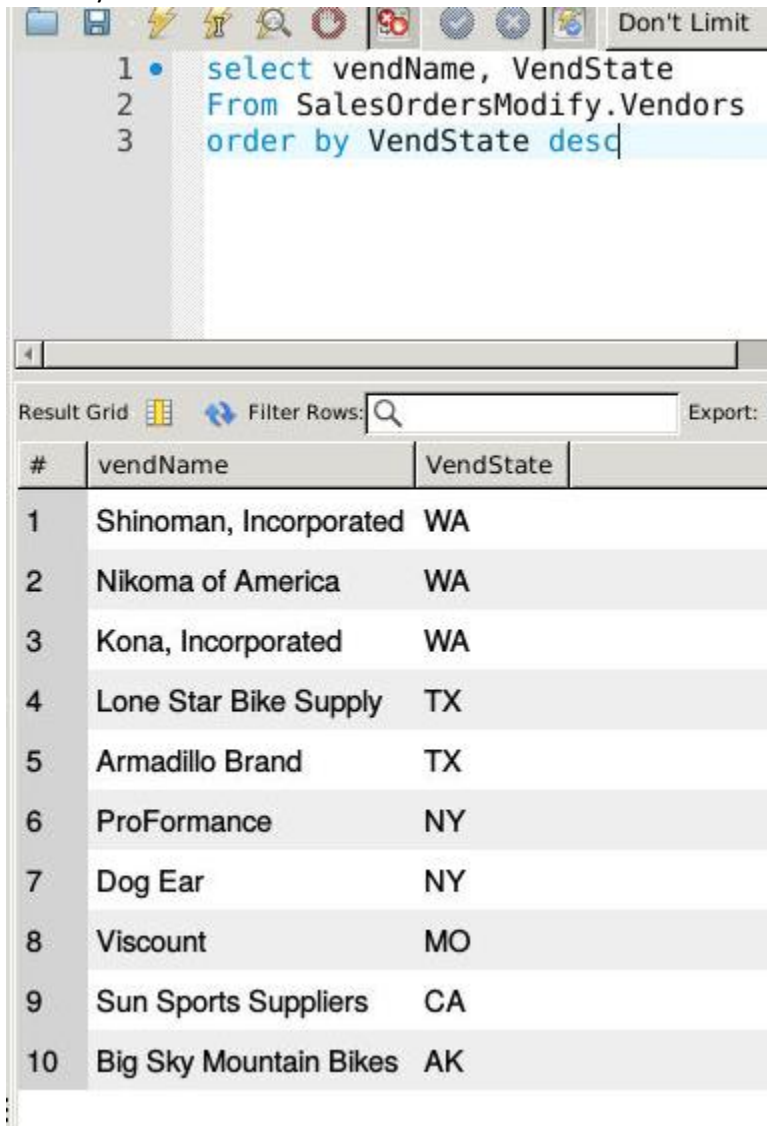
#	CustomerID	CustFirstName	CustLastName	CustStreetAddress	CustCity	CustState	CustZipCode	CustAreaCod
1	1001	Suzanne	Viescas	15127 NE 24th, #383	Redmond	WA	98052	425
2	1002	William	Thompson	122 Spring River Drive	Duvall	WA	98019	425
3	1003	Gary	Hallmark	Route 2, Box 203B	Auburn	WA	98002	253
4	1004	Robert	Brown	672 Lamont Ave	Houston	TX	77201	713

b. Columns: **10**

c. Expected Rowcount: **28**

2. Show a list of states, in reverse alphabetical order, where our vendors are located, and include the names of the vendor.

a. Query:

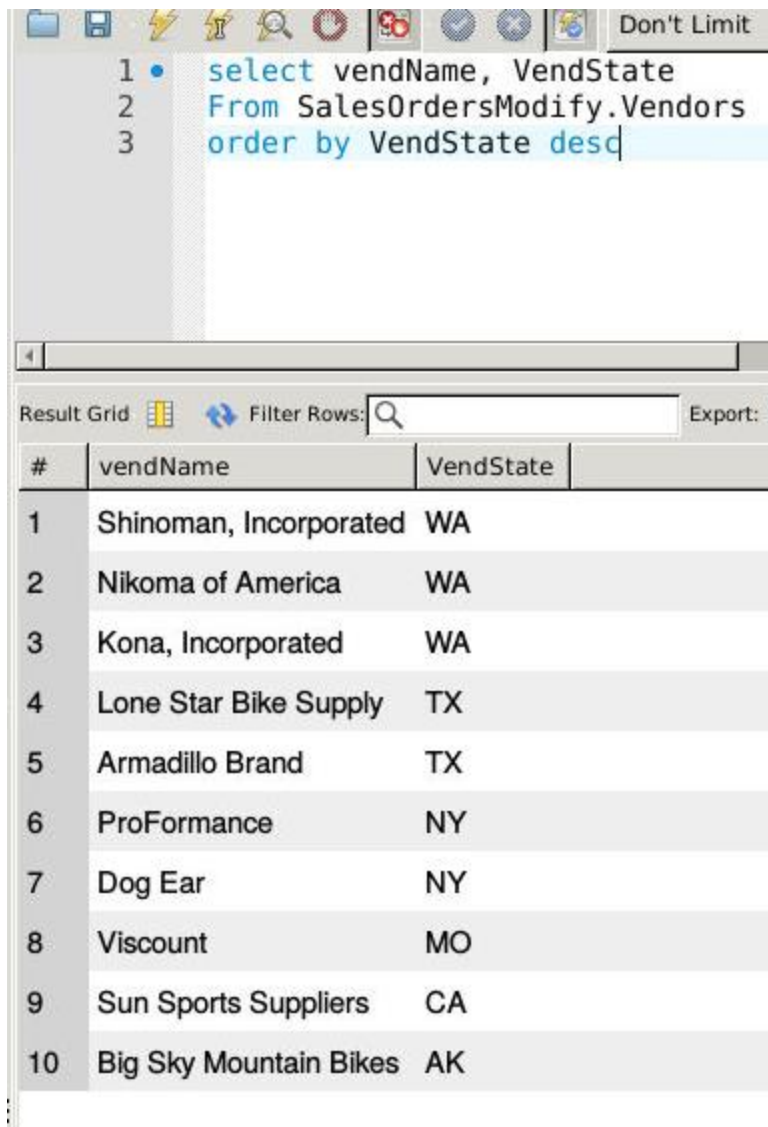


The screenshot shows a SQL query editor window with a toolbar at the top containing icons for file operations, execution, and a 'Don't Limit' button. The query text is as follows:

```
1 • select vendName, VendState
2 From SalesOrdersModify.Vendors
3 order by VendState desc
```

Below the query editor is the 'Result Grid' section, which includes a 'Filter Rows' search bar and an 'Export' button. The results are displayed in a table with 10 rows, sorted by 'VendState' in descending order.

#	vendName	VendState
1	Shinoman, Incorporated	WA
2	Nikoma of America	WA
3	Kona, Incorporated	WA
4	Lone Star Bike Supply	TX
5	Armadillo Brand	TX
6	ProFormance	NY
7	Dog Ear	NY
8	Viscount	MO
9	Sun Sports Suppliers	CA
10	Big Sky Mountain Bikes	AK



1 • select vendName, VendState
2 From SalesOrdersModify.Vendors
3 order by VendState desc

Result Grid Filter Rows: Export:

#	vendName	VendState
1	Shinoman, Incorporated	WA
2	Nikoma of America	WA
3	Kona, Incorporated	WA
4	Lone Star Bike Supply	TX
5	Armadillo Brand	TX
6	ProFormance	NY
7	Dog Ear	NY
8	Viscount	MO
9	Sun Sports Suppliers	CA
10	Big Sky Mountain Bikes	AK

b. Columns: 2

c. Expected Rowcount:10

3. What if we adjusted the retail price of each product by increasing it 7 percent?

a. Query:

```
1 • select ProductName,RetailPrice, RetailPrice * 1.07 as Increase_By_7_Percent
2   From SalesOrdersModify.Products
3
```

#	ProductName	RetailPrice	Increase_By_7_Percent
1	Trek 9000 Mountain Bike	1200.00	1284.0000
2	Eagle FS-3 Mountain Bike	1800.00	1926.0000
3	Don Far Cyclecomputer	75.00	80.2500

b. Columns: **3**

c. Expected Rowcount: **40**

4. Show a list of orders made by each customer in ascending date order.

a. Query:

```
1 • SELECT CustFirstName,CustLastName,OrderDate
2   FROM SalesOrdersModify.Customers
3      Join SalesOrdersModify.Orders
4      ON SalesOrdersModify.Customers.CustomerID = SalesOrdersModify.Orders.CustomerID;
5 Order by OrderDate asc
```

#	CustFirstName	CustLastName	OrderDate
941	Luke	Patterson	2013-02-13
942	Luke	Patterson	2013-02-19
943	Luke	Patterson	2013-02-20
944	Luke	Patterson	2013-02-21

b. Columns: **3**

c. Expected Rowcount:**944**

5. Give the names of all vendors based in Albany, Anchorage, and Dallas.

a. Query:

Query 1 x Customers x Vendors x

Don't Limit

```

1 • SELECT *
2 FROM SalesOrdersModify.Vendors
3 Where VendCity = "Albany" or VendCity = "Anchorage" or VendCity = "Dallas"

```

Result Grid

#	VendorID	VendName	VendStreetAddress	VendCity	VendState	VendZipCode	VendPhoneNumber	VendFaxNumb
1	4	ProFormance	29 N. Quail St.	Albany	NY	12012	(518) 444-1234	(518) 444-123
2	6	Big Sky Mountain Bikes	Glacier Bay South	Anchorage	AK	99209	(907) 222-1234	(907) 222-123
3	10	Armadillo Brand	12330 Side Road Lane	Dallas	TX	75137	(214) 444-9876	(214) 444-987
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

b. Columns: **11**

c. Expected Rowcount: **3**

6. Show an alphabetized list of products with a quantity on hand greater than or equal to 30.

a. Query:

```

1 • SELECT *
2 FROM SalesOrdersModify.Products
3 Where QuantityOnHand >= 30
4 order by ProductName asc;

```

Result Grid

#	ProductNumber	ProductName	ProductDescription	RetailPrice	QuantityOnHand	CategoryID
1	37	AeroFlo ATB Wheels	NULL	189.00	40	4
2	20	Dog Ear Monster Grip Gloves	NULL	15.00	30	1
3	25	King Cobra Helmet	NULL	139.00	30	1

b. Columns: **7**

c. Expected Rowcount: **9**

7. What vendors do we work with that don't have an email address?

a. Query:

Query 1 x Customers x Vendors x Products x Vendors x

1 • SELECT *
2 FROM SalesOrdersModify.Vendors
3 Where VendEmailAddress is null;

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content: I

#	VendorID	VendName	VendStreetAddress	VendCity	VendState	VendZipCode	VendPhoneNumber	VendFaxNum
1	6	Big Sky Mountain Bikes	Glacier Bay South	Anchorage	AK	99209	(907) 222-1234	(907) 222-1
2	7	Dog Ear	575 Madison Ave.	New York	NY	10003	(212) 888-9876	(212) 888-9
3	8	Sun Sports Suppliers	PO Box 8082	Santa Monica	CA	91003	(310) 777-9876	(310) 777-9
4	9	Lone Star Bike Supply	7402 Kingman Drive	El Paso	TX	79915	(915) 666-9876	(915) 666-9
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

b. Columns: 11

c. Expected Rowcount: 4

8. List employees and the dates their orders shipped sorted by order date.

a. Query:

Query 1 x Customers x Vendors x Products x Vendors x Employees x

1 • SELECT EmpFirstName, EmpLastName, ShipDate
2 FROM SalesOrdersModify.Employees
3 inner join SalesOrdersModify.Orders
4 on SalesOrdersModify.Employees.EmployeeID = SalesOrdersModify.Orders.EmployeeID
5 Order By ShipDate asc;

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

#	EmpFirstName	EmpLastName	ShipDate
924	Kathryn	Patterson	2013-02-27
925	David	Viescas	2013-02-27
926	David	Viescas	2013-02-28

b. Columns: 3

c. Expected Rowcount: 944

9. Show the vendors and products they supply to us for products over \$75 for vendors in Texas.

a. Query:

Query 1 x Product_Vendors x Vendors x

```

1 • SELECT ProductName,VendName,VendState, WholesalePrice
2 FROM SalesOrdersModify.Vendors
3 left join SalesOrdersModify.Product_Vendors
4 on SalesOrdersModify.Product_Vendors.VendorID = SalesOrdersModify.Vendors.VendorID
5 inner join SalesOrdersModify.Products
6 on SalesOrdersModify.Products.ProductNumber = SalesOrdersModify.Product_Vendors.ProductNumber
7 Where WholesalePrice > 75 and VendState="TX"

```

Result Grid Filter Rows: Export: Wrap Cell Content: 1A

#	ProductName	VendName	VendState	WholesalePrice
1	Trek 9000 Mountain Bike	Lone Star Bike Supply	TX	854.22
2	Eagle FS-3 Mountain Bike	Lone Star Bike Supply	TX	1477.81
3	Viscount Mountain Bike	Lone Star Bike Supply	TX	448.73
4	GT RTS-2 Mountain Bike	Lone Star Bike Supply	TX	1178.65
5	Eagle SA-120 Clipless Pedals	Lone Star Bike Supply	TX	101.22
6	King Cobra Helmet	Lone Star Bike Supply	TX	105.29
7	King Cobra Helmet	Armadillo Brand	TX	101.58
8	Cosmic Elite Road Warrior Wheels	Lone Star Bike Supply	TX	122.78
9	AeroFlo ATB Wheels	Lone Star Bike Supply	TX	124.89
10	Cycle-Doc Pro Repair Stand	Lone Star Bike Supply	TX	136.98
11	Cycle-Doc Pro Repair Stand	Armadillo Brand	TX	128.65
12	Ultimate Export 2G Car Rack	Lone Star Bike Supply	TX	136.35

b. Columns: 5

c. Expected Rowcount: 12

10. Show employees who live in the same city and state as our vendors.

a. Query:

Query 1 x Product_Vendors x Vendors x Employees x Vendors x

```

1 • SELECT EmpFirstName,EmpLastName, EmpCity, EmpState, VendName, VendCity,VendState
2 FROM SalesOrdersModify.Employees
3 left join SalesOrdersModify.Vendors
4 on SalesOrdersModify.Vendors.VendState = SalesOrdersModify.Employees.EmpState
5 Where EmpCity = VendCity

```

Grid Filter Rows: Export: Wrap Cell Content: 1A

EmpFirstName	EmpLastName	EmpCity	EmpState	VendName	VendCity	VendState
Susan	McLain	Bellevue	WA	Shinoman, Incorporated	Bellevue	WA
David	Viescas	Redmond	WA	Kona, Incorporated	Redmond	WA

b. Columns: 8

c. Expected Rowcount: 2