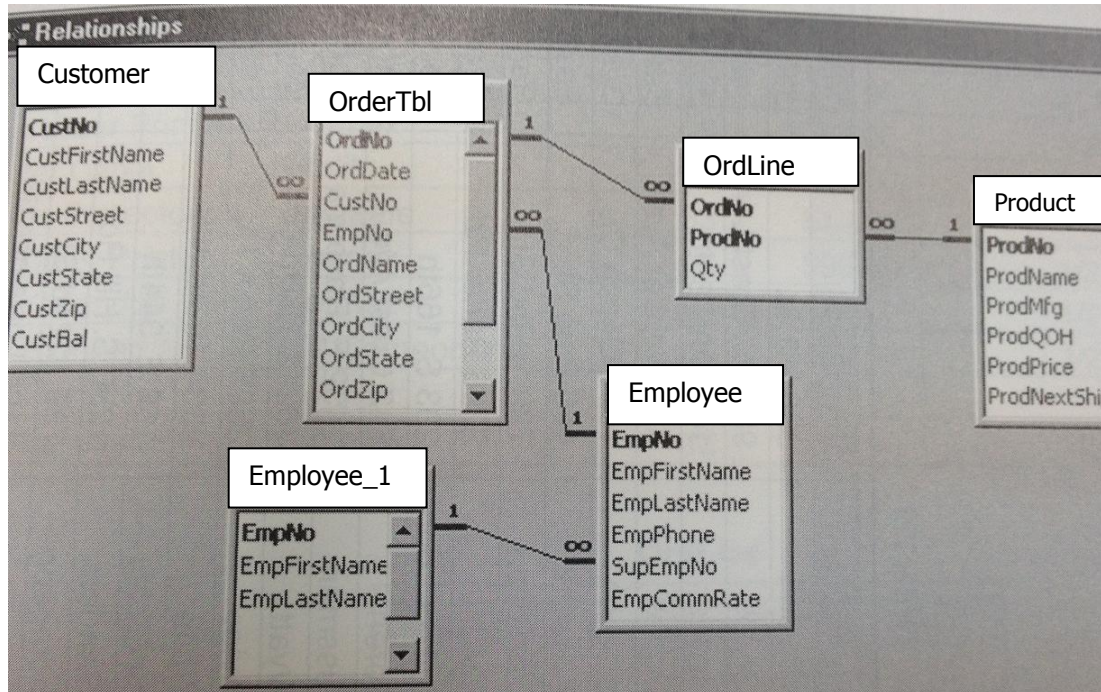


## Homework-Advance Query Language

The following problems use the tables of the Order Entry database as shown in the following figures. When formulating the problems, remember that the *EmpNo* foreign key in the *OrderTbl* table allows null values. An order does not have an associated employee if taken over the Internet.



EmpNo	EmpFirstName	EmpLastName	EmpPhone	SupEmpNo	EmpCommRate
E1329594	Landi	Santos	(303) 789-1234	E8843211	0.02
E8544399	Joe	Jenkins	(303) 221-9875	E8843211	0.02
E8843211	Amy	Tang	(303) 556-4321	E9884325	0.04
E9345771	Colin	White	(303) 221-4453	E9884325	0.04
E9884325	Thomas	Johnson	(303) 556-9987		0.05
E9954302	Mary	Hill	(303) 556-9871	E8843211	0.02

ProdNo	ProdName	ProdMfg	ProdQOH	ProdPrice	ProdNextShipDate
P0036566	17 inch Color Monitor	ColorMeg, Inc.	12	\$169.00	2/20/2004
P0036577	19 inch Color Monitor	ColorMeg, Inc.	10	\$319.00	2/20/2004
P1114590	R3000 Color Laser Printer	Connex	5	\$699.00	1/22/2004
P1412138	10 Foot Printer Cable	Ethlite	100	\$12.00	
P1445671	8-Outlet Surge Protector	Intersafe	33	\$14.99	
P1556678	CVP Ink Jet Color Printer	Connex	8	\$99.00	1/22/2004
P3455443	Color Ink Jet Cartridge	Connex	24	\$38.00	1/22/2004
P4200344	36-Bit Color Scanner	UV Components	16	\$199.99	1/29/2004
P6677900	Black Ink Jet Cartridge	Connex	44	\$25.69	
P9995676	Battery Back-up System	Cybercx	12	\$89.00	2/1/2004



OrderTbl								
OrdNo	OrdDate	CustNo	EmpNo	OrdName	OrdStreet	OrdCity	OrdState	OrdZip
O1116324	01/23/2004	C0954327	E8544399	Sheri Gordon	336 Hill St.	Littleton	CO	80129-5543
O1231231	01/23/2004	C9432910	E9954302	Larry Styles	9825 S. Crest Lane	Bellevue	WA	98104-2211
O1241518	02/10/2004	C9549302		Todd Hayes	1400 NW 88th	Lynnwood	WA	98036-2244
O1455122	01/09/2004	C8574932	E9345771	Wally Jones	411 Webber Ave.	Seattle	WA	98105-1093
O1579999	01/05/2004	C9543029	E8544399	Tom Johnson	1632 Ocean Dr.	Des Moines	WA	98222-1123
O1615141	01/23/2004	C8654390	E8544399	Candy Kendall	456 Pine St.	Seattle	WA	98105-3345
O1656777	02/11/2004	C8543321		Ron Thompson	789 122nd St.	Renton	WA	98666-1289
O2233457	01/12/2004	C2388597	E9884325	Beth Taylor	2396 Rafter Rd	Seattle	WA	98103-1121
O2334661	01/14/2004	C0954327	E1329594	Mrs. Ruth Gordon	233 S. 166th	Seattle	WA	98011
O3252629	01/23/2004	C9403348	E9954302	Mike Boren	642 Crest Ave.	Englewood	CO	80113-5431
O3331222	01/13/2004	C1010398		Jim Glussman	1432 E. Ravenna	Denver	CO	80111-0033
O3377543	01/15/2004	C9128574	E8843211	Jerry Wyatt	16212 123rd Ct.	Denver	CO	80222-0022
O4714645	01/11/2004	C2388597	E1329594	Beth Taylor	2396 Rafter Rd	Seattle	WA	98103-1121
O5511365	01/22/2004	C3340959	E9884325	Betty White	4334 153rd NW	Seattle	WA	98178-3311
O6565656	01/20/2004	C9865874	E8843211	Mr. Jack Sibley	166 E. 344th	Renton	WA	98006-5543
O7847172	01/23/2004	C9943201		Harry Sanders	1280 S. Hill Rd.	Fife	WA	98222-2258
O7959898	02/19/2004	C8543321	E8544399	Ron Thompson	789 122nd St.	Renton	WA	98666-1289
O7989497	01/16/2004	C3499503	E9345771	Bob Mann	1190 Lorraine Cir.	Monroe	WA	98013-1095
O8979495	01/23/2004	C9865874		Helen Sibley	206 McCaffrey	Renton	WA	98006-5543
O9919699	02/11/2004	C9857432	E9954302	Homer Wells	123 Main St.	Seattle	WA	98105-4322

OrdLine Table

OrdLine (continued)		
OrdNo	ProdNo	Qty
O3331222	P3455443	1
O3377543	P1445671	1
O3377543	P9995676	1
O4714645	P0036566	1
O4714645	P9995676	1
O5511365	P1412138	1
O5511365	P1445671	1
O5511365	P1556678	1
O5511365	P3455443	1
O5511365	P6677900	1
O6565656	P0036566	10
O7847172	P1556678	1
O7847172	P6677900	1
O7959898	P1412138	5
O7959898	P1556678	5
O7959898	P3455443	5
O7959898	P6677900	5
O7989497	P1114590	2
O7989497	P1412138	2
O7989497	P1445671	3

Customer							
CustNo	CustFirstName	CustLastName	CustStreet	CustCity	CustState	CustZip	CustBal
C0954327	Sheri	Gordon	336 Hill St.	Littleton	CO	80129-5543	\$230.00
C1010398	Jim	Glussman	1432 E. Ravenna	Denver	CO	80111-0033	\$200.00
C2388597	Beth	Taylor	2396 Rafter Rd	Seattle	WA	98103-1121	\$500.00
C3340959	Betty	Wise	4334 153rd NW	Seattle	WA	98178-3311	\$200.00
C3499503	Bob	Mann	1190 Lorraine Cir.	Monroe	WA	98013-1095	\$0.00
C8543321	Ron	Thompson	789 122nd St.	Renton	WA	98666-1289	\$85.00
C8574932	Wally	Jones	411 Webber Ave.	Seattle	WA	98105-1093	\$1,500.00
C8654390	Candy	Kendall	456 Pine St.	Seattle	WA	98105-3345	\$50.00
C9128574	Jerry	Wyatt	16212 123rd Ct.	Denver	CO	80222-0022	\$100.00
C9403348	Mike	Boren	642 Crest Ave.	Englewood	CO	80113-5431	\$0.00
C9432910	Larry	Styles	9825 S. Crest Lane	Bellevue	WA	98104-2211	\$250.00
C9543029	Sharon	Johnson	1223 Meyer Way	Fife	WA	98222-1123	\$856.00
C9549302	Todd	Hayes	1400 NW 88th	Lynnwood	WA	98036-2244	\$0.00
C9857432	Homer	Wells	123 Main St.	Seattle	WA	98105-4322	\$500.00
C9865874	Mary	Hill	206 McCaffrey	Littleton	CO	80129-5543	\$150.00
C9943201	Harry	Sanders	1280 S. Hill Rd.	Fife	WA	98222-2258	\$1,000.00

## Part 1

1. Using a Type I nested query, list the customer number, the name (first and last), and the city of each customer who has a balance greater than \$150 and placed an order in February 2004.
2. Using a Type II nested query, list the customer number, the name (first and last), and the city of each customer who has a balance greater than \$150 and placed an order in February 2004.
3. List the order number, the order date, the employee number, and the employee name (first and last) of orders placed on January 23, 2004. List the order even if there is not an associated employee.
4. List the order number, the order date, the employee number, the employee name (first and last), the customer number, and the customer name (first and last) of orders placed on January 23, 2004. List the order even if there is not an associated employee.
5. Using a Type II nested query, list the customer number and the customer name of Colorado customers who have not placed orders in February 2004.
6. Repeat problem 5 using a Type I nested query instead of a nested query.
7. List the product number and the name of products contained on every order placed on January 7, 2004, through January 9, 2004.

## Part 2

1. Calculate and show the result of the following SELECT statement:

```
SELECT COUNT(*) AS NumRows,  
COUNT (ProdNextShipDate) AS NumShipDates  
FROM Product
```

2. Calculate and show the result of the following SELECT statement:

```
SELECT ProdNextShipDate, COUNT(*) AS NumRows  
FROM Product  
GROUP BY ProdNextShipDate
```

3. Calculate and show the result of the following SELECT statement:

```
SELECT ProdMfg, ProdNextShipDate, COUNT(*) AS NumRows  
FROM Product  
GROUP BY ProdMfg, ProdNextShipDate
```