

Sara Kazemi
 CST 363
 Spring 2019
 Assignment 1 Part 1

Chapter 3: How to Retrieve Data From a Single Table

-- Exercise 6

```
SELECT vendor_name, vendor_contact_last_name,
       vendor_contact_first_name
FROM vendors
ORDER BY vendor_contact_last_name, vendor_contact_first_name;
```

vendor_name	vendor_contact_last_name	vendor_contact_first_name
Dristas Groom & McCormick	Aaronsen	Thom
Internal Revenue Service	Aileen	Joan
US Postal Service	Alberto	Francesco
Yale Industrial Trucks-Fresno	Alexis	Alexandro
Leslie Company	Alondra	Zev
American Booksellers Assoc	Angelica	Nashalie
Courier Companies, Inc	Antavius	Troy
Pacific Gas & Electric	Anthoni	Kaitlyn
Lou Gentile's Flower Basket	Anum	Trisha
Pollstar	Aranovitch	Robert
Compuserve	Armando	Jan
Data Reproductions Corp	Arodondo	Cesar
State of California	Articunia	Mercedez
Computer Library	Aryn	Leroy
Fresno Rack & Shelving Inc	Baylee	Dakota
United Parcel Service	Beauregard	Violet
Nat Assoc of College Stores	Bernard	Lucy
Baker & Taylor Books	Bernardo	Brittnee
Golden Eagle Insurance Co	Blanca	Korah
Unocal	Bluzinski	Rachael
Simon Direct Inc	Bradlee	Daniel
Gostanian General Building	Bragg	Walter

Fresno Credit Bureau	Braydon	Anne
Fresno County Tax Collector	Brenton	Kila
Nielson	Brooklyn	Keely
Federal Express Corporation	Bucket	Charlie
IBM	Camron	Trentin
Publishers Weekly	Carrollton	Priscilla
Boucher Communications Inc	Carson	Julian
Fresno Photoengraving Company	Chaddick	Derek
Ph Photographic Services	Cheyenne	Kaylea
Dataforms/West	Church	Charlie
Champion Printing Company	Clifford	Jillian
Small Press	Colette	Dusty
The Fresno Bee	Colton	Leah
Open Horizons Publishing	Damien	Deborah
Wells Fargo Bank	Damion	Mikayla
Executive Office Products	Danielson	Rachael
ASC Signs	Darien	Elisabeth
State Board Of Equalization	Dean	Julissa
Bill Jones	Deasia	Tristin
McKesson Water Products	Destin	Luciano
Retirement Plan Consultants	Edgardo	Salina
Blue Cross	Eliana	Nikolas
Digital Dreamworks	Elmert	Ron
RR Bowker	Essence	Marjorie
Cardinal Business Media, Inc.	Eulalia	Kelsey
Micro Center	Evan	Emily
Postmaster	Finklestein	Fyodor
Abbey Office Furnishings	Francis	Kyra
Naylor Publications Inc	Gerald	Kristofer
Aztek Label	Griffin	Brian
Zee Medical Service Co	Hallie	Juliana
Edward Data Services	Helena	Jeanette
Yesmed, Inc	Hernandez	Reba
Mcgraw Hill Companies	Holbrooke	Rashad
Bill Marvin Electric Inc	Hostlery	Kaitlin

Cal State Termite	Hunter	Demetrius
National Information Data Ctr	Irvin	Ania
Cahners Publishing Company	Jacobsen	Samuel
Gary McKeighan Insurance	Jair	Caitlin
Costco	Jaquan	Aaron
Zip Print & Copy Center	Javen	Justin
Dean Witter Reynolds	Johnson	Vance
California Data Marketing	Jonessen	Moises
DMV Renewal	Josey	Lorena
BFI Industries	Kaleigh	Erick
Wang Laboratories, Inc.	Kapil	Robert
Blanchard & Johnson Associates	Keeton	Gonzalo
Shields Design	Kerry	Rowan
Net Asset, Llc	Kraggin	Laura
The Mailers Guide Co	Lacy	Karina
Diversified Printing & Pub	Lane	Vanessa
Enterprise Communications Inc	Lawrence	Eileen
Robbins Mobile Lock And Key	Leigh	Bill
Ascom Hasler Mailing Systems	Lewis	Darnell
Register of Copyrights	Liana	Lukas
Computerworld	Lloyd	Angel
Towne Advertiser's Mailing Svcs	Maegen	Ted
Springhouse Corp	Maeve	Clarence
The Presort Center	Marissa	Kyle
Newbrige Book Clubs	Marks	Michelle
The Library Ltd	Marques	Malia
California Chamber Of Commerce	Mauro	Anton
Capital Resource Credit	Maxwell	Jayda
City Of Fresno	Mayte	Kendall
The Drawing Board	Mckayla	Jeffery
Frank E Wilber Co	Millerton	Johnathon
Quality Education Data	Misael	Kayle
Custom Printing Company	Myles	Harley

Venture Communications Int'l	Neftaly	Thalia
Rich Advertising	Neil	Ingrid
Pacific Bell	Nickalus	Kurt
Texaco	Oren	Grace
Opamp Technical Books	Paris	Gideon
Office Depot	Pinsippi	Val
Bertelsmann Industry Svcs. Inc	Potter	Lance
Franchise Tax Board	Prado	Anita
Jobtrak	Quinn	Kenzie
Expedata Inc	Quintin	Marvin
Cmg Information Services	Randall	Yash
Crown Printing	Randrup	Leann
Vision Envelope & Printing	Raven	Jamari
Malloy Lithographing Inc	Regging	Abe
Reiter's Scientific & Pro Books	Rodolfo	Carlee
California Business Machines	Rohansen	Anders
Zylka Design	Ronaldsen	Jaime
Wakefield Co	Rothman	Nathanael
Evans Executone Inc	Royce	Hannah
Blue Shield of California	Smith	Kylie
Roadway Package System, Inc	Smith	Sam
Coffee Break Service	Smitzen	Jeffrey
Ford Motor Credit Company	Snyder	Karen
Suburban Propane	Spivak	Harold
Kent H Landsberg Co	Stevens	Wendy
American Express	Story	Kirsten
Graylift	Sydney	Deangelo
Publishers Marketing Assoc	Walker	Jovon
Valprint	Warren	Quentin
AT&T	Wesley	Alisha
The Windows Deck	Wood	Liam
Ingram	Yobani	Trey

-- Exercise 7

```

SELECT vendor_contact_last_name, vendor_contact_first_name,
       CONCAT(vendor_contact_last_name, ", ", vendor_contact_first_name)
       AS full_name
FROM vendors
WHERE LEFT(vendor_contact_last_name, 1) IN ('A', 'B', 'C', 'E')
ORDER BY vendor_contact_last_name, vendor_contact_first_name;

```

vendor_contact_last_name	^ vendor_contact_first_name	full_name
Aaronsen	Thom	Aaronsen, Thom
Aileen	Joan	Aileen, Joan
Alberto	Francesco	Alberto, Francesco
Alexis	Alexandro	Alexis, Alexandro
Alondra	Zev	Alondra, Zev
Angelica	Nashalie	Angelica, Nashalie
Antavius	Troy	Antavius, Troy
Anthoni	Kaitlyn	Anthoni, Kaitlyn
Anum	Trisha	Anum, Trisha
Aranovitch	Robert	Aranovitch, Robert
Armando	Jan	Armando, Jan
Arodondo	Cesar	Arodondo, Cesar
Articunia	Mercedez	Articunia, Mercedez
Aryn	Leroy	Aryn, Leroy
Baylee	Dakota	Baylee, Dakota
Beauregard	Violet	Beauregard, Violet
Bernard	Lucy	Bernard, Lucy
Bernardo	Brittnee	Bernardo, Brittnee
Blanca	Korah	Blanca, Korah
Bluzinski	Rachael	Bluzinski, Rachael
Bradlee	Daniel	Bradlee, Daniel
Bragg	Walter	Bragg, Walter
Braydon	Anne	Braydon, Anne
Brenton	Kila	Brenton, Kila
Brooklyn	Keely	Brooklyn, Keely
Bucket	Charlie	Bucket, Charlie
Camron	Trentin	Camron, Trentin
Carrollton	Priscilla	Carrollton, Priscilla
Carson	Julian	Carson, Julian
Chaddick	Derek	Chaddick, Derek
Cheyenne	Kaylea	Cheyenne, Kaylea
Church	Charlie	Church, Charlie
Clifford	Jillian	Clifford, Jillian
Colette	Dusty	Colette, Dusty
Colton	Leah	Colton, Leah
Edgardo	Salina	Edgardo, Salina
Eliana	Nikolas	Eliana, Nikolas
Elmert	Ron	Elmert, Ron
Essence	Marjorie	Essence, Marjorie
Eulalia	Kelsey	Eulalia, Kelsey
Evan	Emily	Evan, Emily

-- Exercise 8

```

SELECT invoice_due_date, invoice_total,
       (invoice_total * 0.1) AS ten_percent,
       (invoice_total * 0.1 + invoice_total) AS plus_ten
FROM invoices
WHERE invoice_total >= 500 AND invoice_total <= 1000
ORDER BY invoice_due_date DESC;

```

invoice_due_date	invoice_total	ten_percent	plus_ten
2014-08-23	503.20	50.320	553.520
2014-08-10	579.42	57.942	637.362
2014-08-08	600.00	60.000	660.000
2014-08-06	739.20	73.920	813.120
2014-07-25	904.14	90.414	994.554
2014-07-11	936.93	93.693	1030.623
2014-06-29	639.77	63.977	703.747
2014-06-24	565.15	56.515	621.665
2014-06-20	953.10	95.310	1048.410
2014-06-02	856.92	85.692	942.612
2014-05-24	601.95	60.195	662.145
2014-05-16	662.00	66.200	728.200

-- Exercise 9

```

SELECT invoice_number, invoice_total,
       (payment_total + credit_total) AS payment_credit_total,
       (invoice_total - credit_total) AS balance_due
FROM invoices
WHERE (invoice_total - credit_total) > 50
ORDER BY balance_due DESC
LIMIT 5;

```

invoice_number	invoice_total	payment_credit_total	balance_due
0-2058	37966.19	37966.19	37966.19
P-0259	26881.40	26881.40	26881.40
40318	21842.00	21842.00	21842.00
0-2060	23517.58	23517.58	21221.63
P-0608	20551.18	1200.00	19351.18

-- Exercise 10

```

SELECT invoice_number, invoice_date, (invoice_total - payment_total)
      AS balance_due, payment_date
FROM invoices
WHERE payment_date IS NULL;

```

invoice_number	invoice_date	balance_due	payment_date
39104	2014-07-10	85.31	NULL
963253264	2014-07-18	52.25	NULL
31361833	2014-07-21	579.42	NULL
263253268	2014-07-21	59.97	NULL
263253270	2014-07-22	67.92	NULL
263253273	2014-07-22	30.75	NULL
P-0608	2014-07-23	20551.18	NULL
9982771	2014-07-24	503.20	NULL
134116	2014-07-28	90.36	NULL
0-2436	2014-07-31	10976.06	NULL
547480102	2014-08-01	224.00	NULL

-- Exercise 11

```

SELECT CURRENT_DATE AS default_format,
      DATE_FORMAT(CURRENT_DATE, '%m-%d-%y') AS 'current_date';

```

default_format	current_date
2019-01-07	01-07-19

-- Exercise 12

```

SELECT 50000 AS starting_principal, 0.65 * 50000 AS interest,
      (50000 + 0.65 * 50000) AS principal_plus_interest;

```

starting_principal	interest	principal_plus_interest
50000	32500.00	82500.00

Chapter 4: How to Retrieve Data From a Two or More Tables

-- Exercise 1

SELECT *

FROM vendors v JOIN invoices i

ON v.vendor_id = i.vendor_id;

vendor_id	vendor_name	vendor_address1	vendor_address2	vendor_city	vendor_state	vendor_zip_code	vendor_phone	vendor_contact_last_name
122	United Parcel Service	P.O. Box 505820	NULL	Reno	NV	88905	(800) 555-0855	Beauregard
123	Federal Express Corporation	P.O. Box 1140	Dept A	Memphis	TN	38101	(800) 555-4091	Bucket
123	Federal Express Corporation	P.O. Box 1140	Dept A	Memphis	TN	38101	(800) 555-4091	Bucket
123	Federal Express Corporation	P.O. Box 1140	Dept A	Memphis	TN	38101	(800) 555-4091	Bucket
123	Federal Express Corporation	P.O. Box 1140	Dept A	Memphis	TN	38101	(800) 555-4091	Bucket
123	Federal Express Corporation	P.O. Box 1140	Dept A	Memphis	TN	38101	(800) 555-4091	Bucket
123	Federal Express Corporation	P.O. Box 1140	Dept A	Memphis	TN	38101	(800) 555-4091	Bucket
89	Evans Executive Inc	4918 Taylor Ct	NULL	Turlock	CA	95380	NULL	Royce
121	Zylka Design	3467 W Shaw Ave...	NULL	Fresno	CA	93711	(559) 555-8625	Ronaldsen
123	Federal Express Corporation	P.O. Box 1140	Dept A	Memphis	TN	38101	(800) 555-4091	Bucket
123	Federal Express Corporation	P.O. Box 1140	Dept A	Memphis	TN	38101	(800) 555-4091	Bucket
96	Wells Fargo Bank	Business Mastercard	P.O. Box 29479	Phoenix	AZ	85038	(947) 555-3900	Damion
95	Pacific Bell	NULL	NULL	Sacramento	CA	95887	(209) 555-7500	Nickalus
115	Roadway Package Systems	Dept La 21095	NULL	Pasadena	CA	91185	NULL	Smith

vendor_contact_first_name	default_terms	default_account_number	invoice_id	vendor_id	invoice_number	invoice_date	invoice_total
Violet	3	553	1	122	989319-457	2014-04-08	3813.33
Charlie	3	553	2	123	263253241	2014-04-10	40.20
Charlie	3	553	3	123	963253234	2014-04-13	138.75
Charlie	3	553	4	123	2-000-2993	2014-04-16	144.70
Charlie	3	553	5	123	963253251	2014-04-16	15.50
Charlie	3	553	6	123	963253261	2014-04-16	42.75
Charlie	3	553	7	123	963253237	2014-04-21	172.50
Hannah	1	522	8	89	125520-1	2014-04-24	95.00
Jaime	3	403	9	121	97/488	2014-04-24	601.95
Charlie	3	553	10	123	263253250	2014-04-24	42.67
Charlie	3	553	11	123	963253262	2014-04-25	42.50
Mikayla	2	160	12	96	177271-001	2014-04-26	662.00
Kurt	2	522	13	95	111-92R-10096	2014-04-30	16.33
Sam	4	553	14	115	25022117	2014-05-01	6.00

payment_total	credit_to_vendor_id	terms_id	invoice_due_date	payment_date
3813.33	0.00	3	2014-05-08	2014-05-07
40.20	0.00	3	2014-05-10	2014-05-14
138.75	0.00	3	2014-05-13	2014-05-09
144.70	0.00	3	2014-05-16	2014-05-12
15.50	0.00	3	2014-05-16	2014-05-11
42.75	0.00	3	2014-05-16	2014-05-21
172.50	0.00	3	2014-05-21	2014-05-22
95.00	0.00	1	2014-05-04	2014-05-01
601.95	0.00	3	2014-05-24	2014-05-21
42.67	0.00	3	2014-05-24	2014-05-22
42.50	0.00	3	2014-05-25	2014-05-20
662.00	0.00	2	2014-05-16	2014-05-13
16.33	0.00	2	2014-05-20	2014-05-23
6.00	0.00	4	2014-06-10	2014-06-10

-- Exercise 2

```

SELECT vendor_name, invoice_number, invoice_date,
       (invoice_total - payment_total - credit_total) AS balance_due
FROM vendors v JOIN invoices i
     ON v.vendor_id = i.vendor_id
WHERE (invoice_total - payment_total - credit_total) != 0
ORDER BY vendor_name;

```

vendor_name	invoice_number	invoice_date	balance_due
Blue Cross	547480102	2014-08-01	224.00
Cardinal Business Medi...	134116	2014-07-28	90.36
Data Reproductions Corp	39104	2014-07-10	85.31
Federal Express Corpor...	963253264	2014-07-18	52.25
Federal Express Corpor...	263253268	2014-07-21	59.97
Federal Express Corpor...	263253270	2014-07-22	67.92
Federal Express Corpor...	263253273	2014-07-22	30.75
Ford Motor Credit Comp...	9982771	2014-07-24	503.20
Ingram	31361833	2014-07-21	579.42
Malloy Lithographing Inc	P-0608	2014-07-23	19351.18
Malloy Lithographing Inc	0-2436	2014-07-31	10976.06

-- Exercise 3

```

SELECT vendor_name, default_account_number AS default_account,
       account_description AS "description"
FROM vendors v JOIN general_ledger_accounts g
     ON v.default_account_number = g.account_number
ORDER BY account_description, vendor_name;

```

vendor_name	default_account	description
Dristas Groom & McCormick	591	Accounting
DMV Renewal	568	Auto License Fee
Newbrige Book Clubs	394	Book Club Royalties
Bertelsmann Industry Svcs. Inc	400	Book Printing Costs
Courier Companies, Inc	400	Book Printing Costs
Crown Printing	400	Book Printing Costs
Data Reproductions Corp	400	Book Printing Costs
Diversified Printing & Pub	400	Book Printing Costs
Malloy Lithographing Inc	400	Book Printing Costs
Fresno Photoengraving Company	403	Book Production Costs
Register of Copyrights	403	Book Production Costs
Shields Design	403	Book Production Costs
Zylka Design	403	Book Production Costs

Baker & Taylor Books	572	Books, Dues, and Subscriptions
California Chamber Of Commerce	572	Books, Dues, and Subscriptions
Compuserve	572	Books, Dues, and Subscriptions
Computerworld	572	Books, Dues, and Subscriptions
Jobtrak	572	Books, Dues, and Subscriptions
Mcgraw Hill Companies	572	Books, Dues, and Subscriptions
Nat Assoc of College Stores	572	Books, Dues, and Subscriptions
Naylor Publications Inc	572	Books, Dues, and Subscriptions
Net Asset, Llc	572	Books, Dues, and Subscriptions
Opamp Technical Books	572	Books, Dues, and Subscriptions
Publishers Marketing Assoc	572	Books, Dues, and Subscriptions
Publishers Weekly	572	Books, Dues, and Subscriptions
Reiter's Scientific & Pro Books	572	Books, Dues, and Subscriptions
The Fresno Bee	572	Books, Dues, and Subscriptions
Pollstar	520	Building Lease
Bill Marvin Electric Inc	523	Building Maintenance
Cal State Termite	523	Building Maintenance
Fresno Rack & Shelving Inc	523	Building Maintenance
Gostanian General Building	523	Building Maintenance
Robbins Mobile Lock And Key	523	Building Maintenance
Springhouse Corp	523	Building Maintenance
Aztek Label	551	Business Forms
Dataforms/West	551	Business Forms
The Drawing Board	551	Business Forms
Valprint	551	Business Forms
Vision Envelope & Printing	551	Business Forms
Gary McKeighan Insurance	590	Business Insurance
Golden Eagle Insurance Co	590	Business Insurance
American Booksellers Assoc	574	Business Licenses and Taxes
City Of Fresno	574	Business Licenses and Taxes
Fresno County Tax Collector	574	Business Licenses and Taxes
Enterprise Communications Inc	536	Card Deck Advertising
The Windows Deck	536	Card Deck Advertising
Fresno Credit Bureau	555	Collection Agency Fees
American Express	160	Computer Equipment

IBM	160	Computer Equipment
Micro Center	160	Computer Equipment
Wang Laboratories, Inc.	160	Computer Equipment
Wells Fargo Bank	160	Computer Equipment
Blanchard & Johnson Associates	540	Direct Mail Advertising
Boucher Communications Inc	540	Direct Mail Advertising
Cahners Publishing Company	540	Direct Mail Advertising
California Data Marketing	540	Direct Mail Advertising
Cardinal Business Media, Inc.	540	Direct Mail Advertising
Champion Printing Company	540	Direct Mail Advertising
CMG Information Services	540	Direct Mail Advertising
Computer Library	540	Direct Mail Advertising
Custom Printing Company	540	Direct Mail Advertising
Edward Data Services	540	Direct Mail Advertising
Kent H Landsberg Co	540	Direct Mail Advertising
National Information Data Ctr	540	Direct Mail Advertising
Open Horizons Publishing	540	Direct Mail Advertising
Ph Photographic Services	540	Direct Mail Advertising
Quality Education Data	540	Direct Mail Advertising
Rich Advertising	540	Direct Mail Advertising
Simon Direct Inc	540	Direct Mail Advertising
Small Press	540	Direct Mail Advertising
The Library Ltd	540	Direct Mail Advertising
The Mailers Guide Co	540	Direct Mail Advertising
The Presort Center	540	Direct Mail Advertising
Towne Advertiser's Mailing Svcs	540	Direct Mail Advertising
Venture Communications Int'l	540	Direct Mail Advertising
Zip Print & Copy Center	540	Direct Mail Advertising
Ascom Hasler Mailing Systems	532	Equipment Rental
Frank E Wilber Co	532	Equipment Rental
Graylift	532	Equipment Rental
RR Bowker	532	Equipment Rental
Yale Industrial Trucks-Fresno	532	Equipment Rental
ASC Signs	546	Exhibits and Shows

Federal Express Corporation	553	Freight
Roadway Package System, Inc	553	Freight
United Parcel Service	553	Freight
Abbey Office Furnishings	150	Furniture
Blue Cross	510	Group Insurance
Blue Shield of California	510	Group Insurance
Internal Revenue Service	235	Income Taxes Payable
Coffee Break Service	570	Office Supplies
Costco	570	Office Supplies
Executive Office Products	570	Office Supplies
Leslie Company	570	Office Supplies
Lou Gentile's Flower Basket	570	Office Supplies
McKesson Water Products	570	Office Supplies
Office Depot	570	Office Supplies
Zee Medical Service Co	570	Office Supplies
California Business Machines	170	Other Equipment
Wakefield Co	170	Other Equipment
Bill Jones	589	Outside Services
Capital Resource Credit	589	Outside Services
Dean Witter Reynolds	589	Outside Services
Digital Dreamworks	589	Outside Services
Expedata Inc	589	Outside Services
Retirement Plan Consultants	589	Outside Services
Yesmed, Inc	589	Outside Services
Postmaster	552	Postage
US Postal Service	552	Postage
Ingram	541	Space Advertising
Nielson	541	Space Advertising
State Board Of Equalization	631	State Corporation Income Taxes
State of California	631	State Corporation Income Taxes
AT&T	522	Telephone
Evans Executone Inc	522	Telephone
Pacific Bell	522	Telephone
Ford Motor Credit Company	582	Travel and Accomodations

Texaco	582	Travel and Accomodations
Unocal	582	Travel and Accomodations
Franchise Tax Board	507	UCI
BFI Industries	521	Utilities
Pacific Gas & Electric	521	Utilities
Suburban Propane	521	Utilities

-- Exercise 4

```

SELECT vendor_name, invoice_date, invoice_number,
       invoice_sequence AS li_sequence,
       line_item_amount AS li_amount
FROM vendors v
     JOIN invoices i
       ON v.vendor_id = i.vendor_id
     JOIN invoice_line_items li
       ON i.invoice_id = li.invoice_id
ORDER BY vendor_name, invoice_date, invoice_number, invoice_sequence;

```

vendor_name	invoice_date	invoice_number	li_sequence	li_amount
Abbey Office Furnishings	2014-07-05	203339-13	1	17.5
Bertelsmann Industry Svcs. Inc	2014-06-18	509786	1	6940.25
Blue Cross	2014-06-03	547481328	1	224
Blue Cross	2014-06-07	547479217	1	116
Blue Cross	2014-08-01	547480102	1	224
Cahners Publishing Company	2014-06-30	587056	1	2184.5
Cardinal Business Media, Inc.	2014-06-22	133560	1	175
Cardinal Business Media, Inc.	2014-07-28	134116	1	90.36
Coffee Break Service	2014-06-24	109596	1	41.8
Compuserve	2014-05-03	21-4748363	1	9.95
Compuserve	2014-05-13	21-4923721	1	9.95
Computerworld	2014-06-11	367447	1	2433
Data Reproductions Corp	2014-06-01	40318	1	21842
Data Reproductions Corp	2014-07-10	39104	1	85.31
Dean Witter Reynolds	2014-06-11	75C-90227	1	1367.5
Digital Dreamworks	2014-05-21	P02-3772	1	7125.34
Dristas Groom & McCormick	2014-05-23	94007005	1	220
Edward Data Services	2014-05-15	972110	1	207.78
Evans Executone Inc	2014-04-24	125520-1	1	95
Federal Express Corporation	2014-04-10	263253241	1	40.2
Federal Express Corporation	2014-04-13	963253234	1	138.75
Federal Express Corporation	2014-04-16	2-000-2993	1	144.7
Federal Express Corporation	2014-04-16	963253251	1	15.5
Federal Express Corporation	2014-04-16	963253261	1	42.75
Federal Express Corporation	2014-04-21	963253237	1	172.5

Federal Express Corporation	2014-04-24	263253250	1	42.67
Federal Express Corporation	2014-04-25	963253262	1	42.5
Federal Express Corporation	2014-05-05	4-321-2596	1	10
Federal Express Corporation	2014-05-06	963253242	1	104
Federal Express Corporation	2014-05-11	963253235	1	108.25
Federal Express Corporation	2014-05-13	963253246	1	129
Federal Express Corporation	2014-05-14	4-342-8069	1	10
Federal Express Corporation	2014-05-16	963253263	1	109.5
Federal Express Corporation	2014-05-20	1-200-5164	1	63.4
Federal Express Corporation	2014-05-23	963253232	1	127.75
Federal Express Corporation	2014-05-25	963253260	1	36
Federal Express Corporation	2014-05-26	963253272	1	61.5
Federal Express Corporation	2014-05-31	94007069	1	400
Federal Express Corporation	2014-05-31	963253255	1	53.75
Federal Express Corporation	2014-06-03	1-202-2978	1	33
Federal Express Corporation	2014-06-10	963253245	1	40.75
Federal Express Corporation	2014-06-11	4-314-3057	1	13.75
Federal Express Corporation	2014-06-11	963253256	1	53.25
Federal Express Corporation	2014-06-15	963253269	1	26.75
Federal Express Corporation	2014-06-17	963253267	1	23.5
Federal Express Corporation	2014-06-18	263253253	1	31.95
Federal Express Corporation	2014-06-22	43966316	1	10
Federal Express Corporation	2014-06-22	963253254	1	108.5
Federal Express Corporation	2014-06-24	7548906-20	1	27
Federal Express Corporation	2014-06-24	963253248	1	241
Federal Express Corporation	2014-07-02	263253265	1	26.25
Federal Express Corporation	2014-07-06	963253258	1	111
Federal Express Corporation	2014-07-07	963253230	1	739.2
Federal Express Corporation	2014-07-07	963253271	1	158
Federal Express Corporation	2014-07-08	963253239	1	147.25
Federal Express Corporation	2014-07-08	963253244	1	60
Federal Express Corporation	2014-07-12	963253252	1	38.75
Federal Express Corporation	2014-07-16	4-327-7357	1	162.75
Federal Express Corporation	2014-07-18	963253264	1	52.25
Federal Express Corporation	2014-07-21	263253268	1	59.97

Federal Express Corporation	2014-07-22	263253270	1	67.92
Federal Express Corporation	2014-07-22	263253273	1	30.75
Federal Express Corporation	2014-07-23	263253243	1	44.44
Federal Express Corporation	2014-07-24	963253240	1	67
Federal Express Corporation	2014-07-30	263253257	1	22.57
Federal Express Corporation	2014-08-02	963253249	1	127.75
Ford Motor Credit Company	2014-07-24	9982771	1	503.2
Franchise Tax Board	2014-05-25	RTR-72-3662-X	1	1600
Fresno County Tax Collector	2014-05-03	P02-88D77S7	1	856.92
Gostanian General Building	2014-05-19	121897	1	450
IBM	2014-05-07	QP58872	1	116.54
IBM	2014-06-09	Q545443	1	1083.58
Ingram	2014-06-03	31359783	1	1575
Ingram	2014-07-21	31361833	1	579.42
Malloy Lithographing Inc	2014-05-28	0-2058	1	37966.19
Malloy Lithographing Inc	2014-07-19	P-0259	1	26881.4
Malloy Lithographing Inc	2014-07-23	P-0608	1	20551.18
Malloy Lithographing Inc	2014-07-24	0-2060	1	23517.58
Malloy Lithographing Inc	2014-07-31	0-2436	1	10976.06
Pacific Bell	2014-04-30	111-92R-10096	1	16.33
Pacific Bell	2014-06-01	111-92R-10094	1	19.67
Pacific Bell	2014-06-04	111-92R-10097	1	16.33
Pacific Bell	2014-06-09	111-92R-10092	1	46.21
Pacific Bell	2014-07-06	111-92R-10093	1	39.77
Pacific Bell	2014-07-15	111-92R-10095	1	32.7
Pollstar	2014-05-13	77290	1	1750
Postmaster	2014-06-23	CBM9920-M-T7 7109	1	290
Reiter's Scientific & Pro Books	2014-07-19	C73-24	1	600
Roadway Package System, Inc	2014-05-01	25022117	1	6
Roadway Package System, Inc	2014-05-10	24863706	1	6
Roadway Package System, Inc	2014-06-15	24946731	1	25.67
Roadway Package System, Inc	2014-06-22	24780512	1	6

Suburban Propane	2014-07-15	111897	1	16.62
United Parcel Service	2014-04-08	989319-457	1	3813.33
United Parcel Service	2014-06-01	989319-437	1	2765.36
United Parcel Service	2014-06-08	989319-477	1	2184.11
United Parcel Service	2014-06-12	989319-497	1	2312.2
United Parcel Service	2014-06-16	989319-427	1	2115.81
United Parcel Service	2014-06-20	989319-487	1	1927.54
United Parcel Service	2014-07-01	989319-467	1	2318.03
United Parcel Service	2014-07-23	989319-417	1	2051.59
United Parcel Service	2014-07-24	989319-447	1	3689.99
Wakefield Co	2014-07-20	97-1024A	1	356.48
Wang Laboratories, Inc.	2014-06-21	MAB01489	1	936.93
Wells Fargo Bank	2014-04-26	I77271-O01	1	50
Wells Fargo Bank	2014-04-26	I77271-O01	2	75.6
Wells Fargo Bank	2014-04-26	I77271-O01	3	58.4
Wells Fargo Bank	2014-04-26	I77271-O01	4	478
Yesmed, Inc	2014-05-11	10843	1	4901.26
Zylka Design	2014-04-24	97/488	1	601.95
Zylka Design	2014-05-21	97/486	1	953.1
Zylka Design	2014-05-25	97/465	1	565.15
Zylka Design	2014-05-30	97/503	1	639.77
Zylka Design	2014-06-10	97/553B	1	313.55
Zylka Design	2014-06-25	97/553	1	904.14
Zylka Design	2014-06-28	97/522	1	1197
Zylka Design	2014-06-28	97/522	2	765.13
Zylka Design	2014-07-25	97/222	1	1000.46

-- Exercise 5

```

SELECT v1.vendor_id, v1.vendor_name,
       CONCAT(v1.vendor_contact_first_name, " ",
v1.vendor_contact_last_name) AS contact_name
FROM vendors v1 JOIN vendors v2
WHERE (v1.vendor_contact_last_name = v2.vendor_contact_last_name) AND
      (v1.vendor_contact_first_name != v2.vendor_contact_first_name);

```

vendor...	vendor_name	contact_name
115	Roadway Package Syst...	Sam Smith
51	Blue Shield of California	Kylie Smith

-- Exercise 6

```

SELECT g.account_number, account_description, invoice_id
FROM general_ledger_accounts g
      LEFT JOIN invoice_line_items li
ON g.account_number = li.account_number
WHERE invoice_id IS NULL
ORDER BY account_number;

```

account_number	account_description	invoice_id
100	Cash	NULL
110	Accounts Receivable	NULL
120	Book Inventory	NULL
162	Capitalized Lease	NULL
167	Software	NULL
181	Book Development	NULL
200	Accounts Payable	NULL
205	Royalties Payable	NULL
221	401K Employee Contributions	NULL
230	Sales Taxes Payable	NULL
234	Medicare Taxes Payable	NULL
235	Income Taxes Payable	NULL
237	State Payroll Taxes Payable	NULL
238	Employee FICA Taxes Payable	NULL
239	Employer FICA Taxes Payable	NULL
241	Employer FUTA Taxes Payable	NULL
242	Employee SDI Taxes Payable	NULL
243	Employer UCI Taxes Payable	NULL
251	IBM Credit Corporation Payable	NULL
280	Capital Stock	NULL
290	Retained Earnings	NULL
300	Retail Sales	NULL
301	College Sales	NULL
302	Trade Sales	NULL
306	Consignment Sales	NULL
310	Compositing Revenue	NULL
394	Book Club Royalties	NULL
500	Salaries and Wages	NULL
505	FICA	NULL
506	FUTA	NULL
508	Medicare	NULL
527	Computer Equipment Maintenance	NULL
528	IBM Lease	NULL
532	Equipment Rental	NULL
536	Card Deck Advertising	NULL
541	Space Advertising	NULL
546	Exhibits and Shows	NULL
548	Web Site Production and Fees	NULL
550	Packaging Materials	NULL
551	Business Forms	NULL
555	Collection Agency Fees	NULL
556	Credit Card Handling	NULL
565	Bank Fees	NULL
568	Auto License Fee	NULL
569	Auto Expense	NULL
576	PC Software	NULL
590	Business Insurance	NULL
610	Charitable Contributions	NULL
611	Profit Sharing Contributions	NULL
620	Interest Paid to Banks	NULL
621	Other Interest	NULL
630	Federal Corporation Income Taxes	NULL
631	State Corporation Income Taxes	NULL
632	Sales Tax	NULL

```
-- Exercise 7
SELECT vendor_name, 'CA' AS vendor_state
FROM vendors
WHERE vendor_state = 'CA'
UNION
SELECT vendor_name, 'Outside CA' AS vendor_state
FROM vendors
WHERE vendor_state != 'CA'
ORDER BY vendor_name;
```

vendor_name	vendor_state
Abbey Office Furnishings	CA
American Booksellers Assoc	Outside CA
American Express	CA
ASC Signs	CA
Ascom Hasler Mailing Systems	Outside CA
AT&T	Outside CA
Aztek Label	CA
Baker & Taylor Books	Outside CA
Bertelsmann Industry Svcs. Inc	CA
BFI Industries	CA
Bill Jones	CA
Bill Marvin Electric Inc	CA
Blanchard & Johnson Associates	CA
Blue Cross	CA
Blue Shield of California	CA
Boucher Communications Inc	Outside CA
Cahners Publishing Company	Outside CA
Cal State Termite	CA
California Business Machines	CA
California Chamber Of Commerce	CA
California Data Marketing	CA
Capital Resource Credit	Outside CA
Cardinal Business Media, Inc.	Outside CA
Champion Printing Company	Outside CA
City Of Fresno	CA

Cmg Information Services	Outside CA
Coffee Break Service	CA
Compuserve	Outside CA
Computer Library	Outside CA
Computerworld	CA
Costco	CA
Courier Companies, Inc	Outside CA
Crown Printing	CA
Custom Printing Company	Outside CA
Data Reproductions Corp	Outside CA
Dataforms/West	CA
Dean Witter Reynolds	Outside CA
Digital Dreamworks	CA
Diversified Printing & Pub	CA
DMV Renewal	CA
Dristas Groom & McCormick	CA
Edward Data Services	Outside CA
Enterprise Communications Inc	Outside CA
Evans Executone Inc	CA
Executive Office Products	CA
Expedata Inc	CA
Federal Express Corporation	Outside CA
Ford Motor Credit Company	CA
Franchise Tax Board	CA
Frank E Wilber Co	CA
Fresno County Tax Collector	CA
Fresno Credit Bureau	CA
Fresno Photoengraving Company	CA
Fresno Rack & Shelving Inc	CA
Gary McKeighan Insurance	CA
Golden Eagle Insurance Co	CA
Gostanian General Building	CA
Graylift	CA
IBM	CA
Ingram	Outside CA

Internal Revenue Service	CA
Jobtrak	CA
Kent H Landsberg Co	CA
Leslie Company	Outside CA
Lou Gentile's Flower Basket	CA
Malloy Lithographing Inc	Outside CA
Mcgraw Hill Companies	Outside CA
McKesson Water Products	CA
Micro Center	Outside CA
Nat Assoc of College Stores	Outside CA
National Information Data Ctr	Outside CA
Naylor Publications Inc	Outside CA
Net Asset, Llc	CA
Newbrige Book Clubs	Outside CA
Nielson	Outside CA
Office Depot	CA
Opamp Technical Books	CA
Open Horizons Publishing	Outside CA
Pacific Bell	CA
Pacific Gas & Electric	CA
Ph Photographic Services	CA
Pollstar	CA
Postmaster	CA
Publishers Marketing Assoc	CA
Publishers Weekly	Outside CA
Quality Education Data	Outside CA
Register of Copyrights	Outside CA
Reiter's Scientific & Pro Books	Outside CA
Retirement Plan Consultants	CA
Rich Advertising	Outside CA
Roadway Package System, Inc	CA
Robbins Mobile Lock And Key	CA
RR Bowker	Outside CA
Shields Design	CA
Simon Direct Inc	Outside CA

Small Press	Outside CA
Springhouse Corp	Outside CA
State Board Of Equalization	CA
State of California	CA
Suburban Propane	CA
Texaco	CA
The Drawing Board	Outside CA
The Fresno Bee	CA
The Library Ltd	Outside CA
The Mailers Guide Co	Outside CA
The Presort Center	CA
The Windows Deck	CA
Towne Advertiser's Mailing Svcs	CA
United Parcel Service	Outside CA
Unocal	CA
US Postal Service	Outside CA
Valprint	CA
Venture Communications Int'l	Outside CA
Vision Envelope & Printing	CA
Wakefield Co	CA
Wang Laboratories, Inc.	CA
Wells Fargo Bank	Outside CA
Yale Industrial Trucks-Fresno	CA
Yesmed, Inc	CA
Zee Medical Service Co	Outside CA
Zip Print & Copy Center	CA
Zylka Design	CA

Chapter 5: How to Insert, Update, and Delete Data

```
-- Exercise 1
INSERT INTO terms (terms_id, terms_description, terms_due_days)
VALUES (6, 'Net due 120 days', 120);

-- Exercise 2
UPDATE terms
SET terms_description = 'Net due 125 days',
    terms_due_days = 125
WHERE terms_id = 6;

-- Exercise 3
DELETE FROM terms
WHERE terms_id = 6;

-- Exercise 4
INSERT INTO invoices
VALUES (DEFAULT, 32, 'AX-014-027', '2014-08-01',
       43155, 0, 0, 2, '2014-08-31', NULL);

-- Exercise 5
INSERT INTO invoice_line_items (invoice_sequence, account_number,
                                line_item_amount, line_item_description, invoice_id)
VALUES
    (1, 160, 180.23, 'Hard drive', 116),
    (2, 527, 254.35, 'Exchange Server update', 116);

-- Exercise 6
UPDATE invoices
SET credit_total = invoice_total * .1,
    payment_total = invoice_total - credit_total
WHERE invoice_id = 116;

-- Exercise 7
UPDATE vendors
SET default_account_number = 403
WHERE vendor_id = 44;
```

```
-- Exercise 8
UPDATE invoices
SET terms_id = 2
WHERE vendor_id IN
      (SELECT vendor_id
       FROM vendors
       WHERE default_terms_id = 2);
```

```
-- Exercise 9
DELETE FROM invoice_line_items
WHERE invoice_id = 116;
DELETE FROM invoices
WHERE invoice_id = 116;
```