```
******************
-- This script creates all 3 databases (AP, EX, and OM)
-- for Murach's MvSOL by Joel Murach
   ************
__ ***********************
-- CREATE THE AP DATABASE
-- create the database
DROP DATABASE IF EXISTS ap;
CREATE DATABASE ap;
-- select the database
USE ap;
-- create the tables
CREATE TABLE general_ledger_accounts
 account_number
                       INT
                                      PRIMARY KEY,
                       VARCHAR(50)
  account_description
                                      UNIQUE
);
CREATE TABLE terms
  terms_id
                       INT
                                      PRIMARY KEY
                                                   AUTO_INCREMENT,
  terms_description
                       VARCHAR(50)
                                      NOT NULL,
                                      NOT NULL
  terms_due_days
                       INT
);
CREATE TABLE vendors
 vendor_id
                               INT
                                              PRIMARY KEY
                                                           AUTO_INCREMENT,
 vendor_name
                               VARCHAR(50)
                                              NOT NULL
                                                           UNIQUE,
  vendor_address1
                               VARCHAR(50),
                               VARCHAR(50),
  vendor_address2
                               VARCHAR(50)
 vendor_city
                                              NOT NULL,
                                              NOT NULL,
 vendor_state
                               CHAR(2)
 vendor_zip_code
                               VARCHAR(20)
                                              NOT NULL,
 vendor_phone
                               VARCHAR(50),
 vendor_contact_last_name
                               VARCHAR(50),
 vendor_contact_first_name
                               VARCHAR(50),
  default_terms_id
                               INT
                                              NOT NULL,
                                              NOT NULL,
  default_account_number
                               INT
 CONSTRAINT vendors_fk_terms
    FOREIGN KEY (default_terms_id)
    REFERENCES terms (terms_id),
 CONSTRAINT vendors_fk_accounts
    FOREIGN KEY (default_account_number)
   REFERENCES general_ledger_accounts (account_number)
);
CREATE TABLE invoices
  invoice_id
                                      PRIMARY KEY
                                                   AUTO_INCREMENT,
                       INT
 vendor_id
                       INT
                                      NOT NULL,
 invoice_number
                       VARCHAR(50)
                                      NOT NULL,
                                      NOT NULL,
  invoice_date
                       DATE
  invoice_total
                       DECIMAL(9,2)
                                      NOT NULL,
```

```
NOT NULL
  payment_total
                        DECIMAL(9,2)
                                                       DEFAULT 0,
 credit_total
                                        NOT NULL
                        DECIMAL(9,2)
                                                       DEFAULT 0,
                                        NOT NULL,
  terms_id
                         INT
  invoice_due_date
                        DATE
                                        NOT NULL,
  payment_date
                        DATE,
  CONSTRAINT invoices_fk_vendors
    FOREIGN KEY (vendor_id)
    REFERENCES vendors (vendor_id),
 CONSTRAINT invoices_fk_terms
    FOREIGN KEY (terms_id)
    REFERENCES terms (terms_id)
);
CREATE TABLE invoice_line_items
  invoice_id
                           INT
                                          NOT NULL,
  invoice_sequence
                           INT
                                          NOT NULL,
  account_number
                           INT
                                          NOT NULL,
  line_item_amount
                           DECIMAL(9,2)
                                          NOT NULL,
  line_item_description
                           VARCHAR(100)
                                          NOT NULL,
 CONSTRAINT line_items_pk
    PRIMARY KEY (invoice_id, invoice_sequence),
 CONSTRAINT line_items_fk_invoices
    FOREIGN KEY (invoice_id)
    REFERENCES invoices (invoice_id),
 CONSTRAINT line_items_fk_acounts
    FOREIGN KEY (account_number)
    REFERENCES general_ledger_accounts (account_number)
);
-- create the indexes
CREATE INDEX invoices_invoice_date_ix
 ON invoices (invoice_date DESC);
-- create some test tables that aren't explicitly
-- related to the previous five tables
CREATE TABLE vendor_contacts
 vendor_id
                  INT
                                PRIMARY KEY,
  last_name
                  VARCHAR(50)
                                NOT NULL,
 first_name
                  VARCHAR(50)
                                NOT NULL
);
CREATE TABLE invoice_archive
  invoice_id
                       INT
                                    NOT NULL,
 vendor_id
                       INT
                                    NOT NULL,
                                    NOT NULL,
  invoice_number
                       VARCHAR (50)
  invoice_date
                      DATE
                                    NOT NULL,
  invoice_total
                      DECIMAL(9,2) NOT NULL,
  payment_total
                      DECIMAL(9,2) NOT NULL,
                       DECIMAL(9,2) NOT NULL,
 credit_total
                                    NOT NULL,
  terms id
                       INT
  invoice_due_date
                      DATE
                                    NOT NULL,
  payment_date
                      DATE
);
-- insert rows into the tables
INSERT INTO general_ledger_accounts VALUES
```

```
(100, 'Cash'),
(110, 'Accounts Receivable'),
(120, 'Book Inventory'),
(150, 'Furniture'),
(160, 'Computer Equipment'),
(162, 'Capitalized Lease'),
(167, 'Software'),
(170, 'Other Equipment'),
(181, 'Book Development'),
(200, 'Accounts Payable'),
(205, 'Royalties Payable'),
(221, '401K Employee Contributions'),
(230, 'Sales Taxes Payable'),
(234, 'Medicare Taxes Payable'),
(235, 'Income Taxes Payable'),
(237, 'State Payroll Taxes Payable'),
(238, 'Employee FICA Taxes Payable'),
(239, 'Employer FICA Taxes Payable'),
(241, 'Employer FUTA Taxes Payable'),
(242, 'Employee SDI Taxes Payable'),
(243, 'Employer UCI Taxes Payable'),
(251, 'IBM Credit Corporation Payable'),
(280, 'Capital Stock'),
(290, 'Retained Earnings'),
(300, 'Retail Sales'),
(301, 'College Sales'),
(302, 'Trade Sales'),
(306, 'Consignment Sales'),
(310, 'Compositing Revenue'),
(394, 'Book Club Royalties'),
(400, 'Book Printing Costs'),
(403, 'Book Production Costs'),
(500, 'Salaries and Wages'),
(505, 'FICA'),
(506, 'FUTA'),
(507, 'UCI'),
(508, 'Medicare'),
(510, 'Group Insurance'),
(520, 'Building Lease'),
(521, 'Utilities'),
(522, 'Telephone'),
(523, 'Building Maintenance'),
(527, 'Computer Equipment Maintenance'),
(528, 'IBM Lease'),
(532, 'Equipment Rental'),
(536, 'Card Deck Advertising'),
(540, 'Direct Mail Advertising'),
(541, 'Space Advertising'),
(546, 'Exhibits and Shows'),
(548, 'Web Site Production and Fees'),
(550, 'Packaging Materials'),
(551, 'Business Forms'),
(552, 'Postage'),
(553, 'Freight'),
(555, 'Collection Agency Fees'),
(556, 'Credit Card Handling'),
(565, 'Bank Fees'),
(568, 'Auto License Fee'),
(569, 'Auto Expense'),
```

```
(570, 'Office Supplies'),
(572, 'Books, Dues, and Subscriptions'),
(574, 'Business Licenses and Taxes'),
(576, 'PC Software'),
(580, 'Meals'),
(582, 'Travel and Accomodations'),
(589, 'Outside Services'),
(590, 'Business Insurance'),
(591, 'Accounting'),
(610, 'Charitable Contributions'),
(611, 'Profit Sharing Contributions'),
(620, 'Interest Paid to Banks'),
(621, 'Other Interest'),
(630, 'Federal Corporation Income Taxes'),
(631, 'State Corporation Income Taxes'),
(632, 'Sales Tax');
INSERT INTO terms VALUES
(1,'Net due 10 days',10),
(2, 'Net due 20 days', 20),
(3, 'Net due 30 days', 30),
(4, 'Net due 60 days', 60),
(5, 'Net due 90 days', 90);
INSERT INTO vendors VALUES
(1, 'US Postal Service', 'Attn: Supt. Window Services', 'PO Box
7005', 'Madison', 'WI', '53707', '(800) 555-1205', 'Alberto', 'Francesco', 1, 552),
(2, 'National Information Data Ctr', 'PO Box
96621', NULL, 'Washington', 'DC', '20090', '(301) 555-8950', 'Irvin', 'Ania', 3,540), (3, 'Register of Copyrights', 'Library Of Congress', NULL, 'Washington', 'DC', '20559', NULL, 'Liana', 'Lukas', 3,403),
(4, Jobtrak', '1990 Westwood Blvd Ste 260', NULL, 'Los Angeles', 'CA', '90025', '(800)
555-8725','Quinn','Kenzie',3,572),
(5, 'Newbrige Book Clubs', '3000 Cindel Drive', NULL, 'Washington', 'NJ', '07882', '(800)
(5, 'Newbrige BOOK CLUBS, 555-9980', 'Marks', 'Michelle', 4, 394), Chamber Of Commerce', '3255 Ramos
(6,'California Chamber Of Commerce','3255 Ramos
Cir',NULL,'Sacramento','CA','95827','(916) 555-6670','Mauro','Anton',3,572),
(7, 'Towne Advertiser''s Mailing Svcs', 'Kevin Minder', '3441 W Macarthur Blvd', 'Santa
Ana', 'CA', '92704', NULL, 'Maegen', 'Ted', 3, 540),
(8, 'BFI Industries', 'PO Box 9369', NULL, 'Fresno', 'CA', '93792', '(559) 555-
1551', 'Kaleigh', 'Erick', 3, 521),
(9, 'Pacific Gas & Electric', 'Box 52001', NULL, 'San Francisco', 'CA', '94152', '(800)
555-6081', 'Anthoni', 'Kaitlyn', 3, 521),
(10, 'Robbins Mobile Lock And Key', '4669 N Fresno', NULL, 'Fresno', 'CA', '93726', '(559)
555-9375','Leigh','Bill',2,523),
(11, 'Bill Marvin Electric Inc', '4583 E Home', NULL, 'Fresno', 'CA', '93703', '(559) 555-
5106', 'Hostlery', 'Kaitlin', 2, 523),
(12, 'City Of Fresno', 'PO Box 2069', NULL, 'Fresno', 'CA', '93718', '(559) 555-
9999', 'Mayte', 'Kendall', 3, 574),
(13, 'Golden Eagle Insurance Co', 'PO Box 85826', NULL, 'San
Diego', 'CA', '92186', NULL, 'Blanca', 'Korah', 3, 590), (14, 'Expedata Inc', '4420 N. First Street, Suite
108', NULL, 'Fresno', 'CA', '93726', '(559) 555-9586', 'Quintin', 'Marvin', 3,589),
(15, 'ASC Signs', '1528 N Sierra
Vista', NULL, 'Fresno', 'CA', '93703', NULL, 'Darien', 'Elisabeth', 1,546),
(16, 'Internal Revenue
Service', NULL, NULL, 'Fresno', 'CA', '93888', NULL, 'Aileen', 'Joan', 1, 235),
(17, 'Blanchard & Johnson Associates', '27371 Valderas', NULL, 'Mission
Viejo','CA','92691','(214) 555-3647','Keeton','Gonzalo',3,540),
```

```
(18, 'Fresno Photoengraving Company', '1952 "H" Street', 'P.O. Box
1952','Fresno','CA','93718','(559) 555-3005','Chaddick','Derek',3,403), (19,'Crown Printing','1730 "H" St',NULL,'Fresno','CA','93721','(559) 555-
7473', 'Randrup', 'Leann', 2, 400),
(20, 'Diversified Printing & Pub', '2632 Saturn St', NULL, 'Brea', 'CA', '92621', '(714)
555-4541', 'Lane', 'Vanesa', 3, 400),
(21, 'The Library Ltd', '7700 Forsyth', NULL, 'St Louis', 'MO', '63105', '(314) 555-
8834', 'Marques', 'Malia', 3, 540),
(22, 'Micro Center', '1555 W Lane Ave', NULL, 'Columbus', 'OH', '43221', '(614) 555-
4435', 'Evan', 'Emily', 2, 160),
(23, 'Yale Industrial Trucks-Fresno', '3711 W
Franklin', NULL, 'Fresno', 'CA', '93706', '(559) 555-2993', 'Alexis', 'Alexandro', 3, 532),
(24, 'Zee Medical Service Co', '4221 W Sierra Madre
#104', NULL, 'Washington', 'IA', '52353', NULL, 'Hallie', 'Juliana', 3, 570),
(25, 'California Data Marketing', '2818 E Hamilton', NULL, 'Fresno', 'CA', '93721', '(559)
555-3801', 'Jonessen', 'Moises', 4, 540),
(26, 'Small Press', '121 E Front St - 4th Floor', NULL, 'Traverse
City', 'MI', '49684', NULL, 'Colette', 'Dusty', 3, 540),
(27, 'Rich Advertising', '12 Daniel Road', NULL, 'Fairfield', 'NJ', '07004', '(201) 555-
9742', 'Neil', 'Ingrid', 3, 540),
(29, 'Vision Envelope & Printing', 'PO Box 3100', NULL, 'Gardena', 'CA', '90247', '(310)
555-7062', 'Raven', 'Jamari', 3, 551),
(30, 'Costco', 'Fresno Warehouse', '4500 W Shaw', 'Fresno', 'CA', '93711', NULL, 'Jaquan', 'Aaron', 3,570),
(31, 'Enterprise Communications Inc', '1483 Chain Bridge Rd, Ste
202', NULL, 'Mclean', 'VA', '22101', '(770) 555-9558', 'Lawrence', 'Eileen', 2, 536), (32, 'RR Bowker', 'PO Box 31', NULL, 'East Brunswick', 'NJ', '08810', '(800) 555-8110', 'Essence', 'Marjorie', 3, 532),
(33, 'Nielson', 'Ohio Valley Litho Division', 'Location
#0470', 'Cincinnati', 'OH', '45264', NULL, 'Brooklynn', 'Keely', 2,541),
(34, 'IBM', 'PO Box 61000', NULL, 'San Francisco', 'CA', '94161', '(800) 555-
4426', 'Camron', 'Trentin', 1, 160),
(35, 'Cal State Termite', 'PO Box 956', NULL, 'Selma', 'CA', '93662', '(559) 555-
1534', 'Hunter', 'Demetrius', 2, 523),
(36, 'Graylift', 'PO Box 2808', NULL, 'Fresno', 'CA', '93745', '(559) 555-6621', 'Sydney', 'Deangelo', 3, 532),
(37, 'Blue Cross', 'PO Box 9061', NULL, 'Oxnard', 'CA', '93031', '(800) 555-
0912', 'Eliana', 'Nikolas', 3, 510),
(38, 'Venture Communications Int''l', '60 Madison Ave', NULL, 'New
York', 'NY', '10010', '(212) 555-4800', 'Neftaly', 'Thalia', 3,540),
(39, 'Custom Printing Company', 'PO Box 7028', NULL, 'St Louis', 'MO', '63177', '(301)
555-1494', 'Myles', 'Harley', 3, 540),
(40, 'Nat Assoc of College Stores', '500 East Lorain
Street', NULL, 'Oberlin', 'OH', '44074', NULL, 'Bernard', 'Lucy', 3, 572),
(41, 'Shields Design', '415 E Olive Ave', NULL, 'Fresno', 'CA', '93728', '(559) 555-
8060', 'Kerry', 'Rowan', 2, 403),
(42, 'Opamp Technical Books', '1033 N Sycamore Ave.', NULL, 'Los
Angeles', 'CA', '90038', '(213) 555-4322', 'Paris', 'Gideon', 3, 572),
(43, 'Capital Resource Credit', 'PO Box 39046', NULL, 'Minneapolis', 'MN', '55439', '(612)
555-0057', 'Maxwell', 'Jayda', 3, 589),
(44, 'Courier Companies, Inc', 'PO Box 5317', NULL, 'Boston', 'MA', '02206', '(508) 555-
6351', 'Antavius', 'Troy', 4, 400),
(45, 'Naylor Publications Inc', 'PO Box
40513', NULL, 'Jacksonville', 'FL', '32231', '(800) 555-6041', 'Gerald', 'Kristofer', 3, 572),
(46, 'Open Horizons Publishing', 'Book Marketing Update', 'PO Box 205', 'Fairfield', 'IA', '52556', '(515) 555-6130', 'Damien', 'Deborah', 2, 540),
(47, 'Baker & Taylor Books', 'Five Lakepointe Plaza, Ste 500', '2709 Water Ridge
Parkway', 'Charlotte', 'NC', '28217', '(704) 555-3500', 'Bernardo', 'Brittnee', 3, 572),
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(48, 'Fresno County Tax Collector', 'PO Box 1192', NULL, 'Fresno', 'CA', '93715', '(559)
555-3482', 'Brenton', 'Kila', 3, 574),
(49, 'Mcgraw Hill Companies', 'PO Box 87373', NULL, 'Chicago', 'IL', '60680', '(614) 555-
3663', 'Holbrooke', 'Rashad', 3, 572),
(50, 'Publishers Weekly', 'Box 1979', NULL, 'Marion', 'OH', '43305', '(800) 555-
1669', 'Carrollton', 'Priscilla', 3, 572),
(51, 'Blue Shield of California', 'PO Box 7021', NULL, 'Anaheim', 'CA', '92850', '(415)
555-5103', 'Smith', 'Kylie', 3, 510),
(52, 'Aztek Label', 'Accounts Payable', '1150 N Tustin
Ave', 'Anaheim', 'CA', '92807', '(714) 555-9000', 'Griffin', 'Brian', 3,551),
(53, 'Gary McKeighan Insurance', '3649 W Beechwood Ave
#101', NULL, 'Fresno', 'CA', '93711', '(559) 555-2420', 'Jair', 'Caitlin', 3, 590),
(54, 'Ph Photographic Services', '2384 E
Gettysburg', NULL, 'Fresno', 'CA', '93726', '(559) 555-0765', 'Cheyenne', 'Kaylea', 3, 540),
(55, 'Quality Education Data', 'PO Box 95857', NULL, 'Chicago', 'IL', '60694', '(800) 555-
5811','Misael','Kayle',2,540),
(56, 'Springhouse Corp', 'PO Box 7247-7051', NULL, 'Philadelphia', 'PA', '19170', '(215)
555-8700', 'Maeve', 'Clarence', 3, 523),
(57, 'The Windows Deck', '117 W Micheltorena Top Floor', NULL, 'Santa
Barbara', 'CA', '93101', '(800) 555-3353', 'Wood', 'Liam', 3, 536),
(58, 'Fresno Rack & Shelving Inc', '4718 N Bendel Ave', NULL, 'Fresno', 'CA', '93722', NULL, 'Baylee', 'Dakota', 2,523),
(59, 'Publishers Marketing Assoc', '627 Aviation Way', NULL, 'Manhatttan
Beach', 'CA', '90266', '(310) 555-2732', 'Walker', 'Jovon', 3, 572),
(60, 'The Mailers Guide Co', 'PO Box 1550', NULL, 'New
Rochelle', 'NY', '10802', NULL, 'Lacy', 'Karina', 3, 540),
(61, 'American Booksellers Assoc', '828 S
Broadway', NULL, 'Tarrytown', 'NY', '10591', '(800) 555-
0037', 'Angelica', 'Nashalie', 3, 574),
(62, 'Cmg Information Services', 'PO Box 2283', NULL, 'Boston', 'MA', '02107', '(508) 555-
7000', 'Randall', 'Yash', 3, 540),
(63, 'Lou Gentile''s Flower Basket', '722 E Olive
Ave', NULL, 'Fresno', 'CA', '93728', '(559) 555-6643', 'Anum', 'Trisha', 1,570),
(64, 'Texaco', 'PO Box
6070', NULL, 'Inglewood', 'CA', '90312', NULL, 'Oren', 'Grace', 3, 582), (65, 'The Drawing Board', 'PO Box 4758', NULL, 'Carol
Stream', 'IL', '60197', NULL, 'Mckayla', 'Jeffery', 2, 551),
(66, 'Ascom Hasler Mailing Systems', 'PO Box
895', NULL, 'Shelton', 'CT', '06484', NULL, 'Lewis', 'Darnell', 3, 532),
(67, 'Bill Jones', 'Secretary Of State', 'PO Box
944230', 'Sacramento', 'CA', '94244', NULL, 'Deasia', 'Tristin', 3, 589),
(68, 'Computer Library', '3502 W Greenway #7', NULL, 'Phoenix', 'AZ', '85023', '(602) 547-
0331', 'Aryn', 'Leroy', 3, 540),
(69, 'Frank E Wilber Co', '2437 N Sunnyside', NULL, 'Fresno', 'CA', '93727', '(559) 555-
1881', 'Millerton', 'Johnathon', 3, 532),
(70, 'Fresno Credit Bureau', 'PO Box 942', NULL, 'Fresno', 'CA', '93714', '(559) 555-
7900', 'Braydon', 'Anne', 2, 555),
(71, 'The Fresno Bee', '1626 E Street', NULL, 'Fresno', 'CA', '93786', '(559) 555-
4442', 'Colton', 'Leah', 2, 572),
(72, 'Data Reproductions Corp', '4545 Glenmeade Lane', NULL, 'Auburn
Hills', 'MI', '48326', '(810) 555-3700', 'Arodondo', 'Cesar', 3, 400),
(73, 'Executive Office Products', '353 E Shaw Ave', NULL, 'Fresno', 'CA', '93710', '(559)
555-1704', 'Danielson', 'Rachael', 2, 570),
(74, 'Leslie Company', 'PO Box 610', NULL, 'Olathe', 'KS', '66061', '(800) 255-6210', 'Alondra', 'Zev', 3, 570),
(75, 'Retirement Plan Consultants', '6435 North Palm Ave, Ste
101', NULL, 'Fresno', 'CA', '93704', '(559) 555-7070', 'Edgardo', 'Salina', 3, 589),
(76, 'Simon Direct Inc', '4 Cornwall Dr Ste 102', NULL, 'East
```

```
Brunswick', 'NJ', '08816', '(908) 555-7222', 'Bradlee', 'Daniel', 2, 540),
(77, 'State Board Of Equalization', 'PO Box
942808', NULL, 'Sacramento', 'CA', '94208', '(916) 555-4911', 'Dean', 'Julissa', 1, 631), (78, 'The Presort Center', '1627 "E" Street', NULL, 'Fresno', 'CA', '93706', '(559) 555-
6151','Marissa','Kyle',3,540),
(79,'Valprint','PO Box 12332',NULL,'Fresno','CA','93777','(559) 555-
3112', 'Warren', 'Quentin', 3, 551),
(80, 'Cardinal Business Media, Inc.', 'P O Box 7247-
`7844',NULL,'Philadelphia','PA','19170','(215) 555-1500','Eulalia','Kelsey',2,540), (81,'Wang Laboratories, Inc.','P.O. Box 21209',NULL,'Pasadena','CA','91185','(800)
555-0344', 'Kapil', 'Robert', 2, 160),
(82, 'Reiter''s Scientific & Pro Books', '2021 K Street
Nw', NULL, 'Washington', 'DC', '20006', '(202) 555-5561', 'Rodolfo', 'Carlee', 2, 572),
(83, 'Ingram', 'PO Box
845361', NULL, 'Dallas', 'TX', '75284', NULL, 'Yobani', 'Trey', 2, 541),
(84, 'Boucher Communications Inc', '1300 Virginia Dr. Ste 400', NULL, 'Fort
Washington', 'PA', '19034', '(215) 555-8000', 'Carson', 'Julian', 3,540),
(85, 'Champion Printing Company', '3250 Spring Grove
Ave', NULL, 'Cincinnati', 'OH', '45225', '(800) 555-1957', 'Clifford', 'Jillian', 3,540),
(86, 'Computerworld', 'Department #1872', 'PO Box 61000', 'San
Francisco', 'CA', '94161', '(617) 555-0700', 'Lloyd', 'Angel', 1, 572),
(87, 'DMV Renewal', 'PO Box
942894', NULL, 'Sacramento', 'CA', '94294', NULL, 'Josey', 'Lorena', 4, 568), (88, 'Edward Data Services', '4775 E Miami River
Rd', NULL, 'Cleves', 'OH', '45002', '(513) 555-3043', 'Helena', 'Jeanette', 1, 540),
(89, 'Evans Executone Inc', '4918 Taylor
Ct', NULL, 'Turlock', 'CA', '95380', NULL, 'Royce', 'Hannah', 1, 522),
(90, 'Wakefield Co', '295 W Cromwell Ave Ste 106', NULL, 'Fresno', 'CA', '93711', '(559) 555-4744', 'Rothman', 'Nathanael', 2,170), (91, 'McKesson Water Products', 'P O Box 7126', NULL, 'Pasadena', 'CA', '91109', '(800) 555-7009', 'Destin', 'Luciano', 2,570),
(92, 'Zip Print & Copy Center', 'PO Box 12332', NULL, 'Fresno', 'CA', '93777', '(233) 555-
6400', 'Javen', 'Justin', 2, 540),
(93, 'AT&T', 'PO Box
78225', NULL, 'Phoenix', 'AZ', '85062', NULL, 'Wesley', 'Alisha', 3, 522),
(94, 'Abbey Office Furnishings', '4150 W Shaw Ave', NULL, 'Fresno', 'CA', '93722', '(559)
555-8300', 'Francis', 'Kyra', 2, 150),
(95, 'Pacific Bell', NULL, NULL, 'Sacramento', 'CA', '95887', '(209) 555-
7500', 'Nickalus', 'Kurt', 2, 522),
(96, 'Wells Fargo Bank', 'Business Mastercard', 'P.O. Box
29479', 'Phoenix', 'AZ', '85038', '(947) 555-3900', 'Damion', 'Mikayla', 2, 160), (97, 'Compuserve', 'Dept L-742', NULL, 'Columbus', 'OH', '43260', '(614) 555-8600', 'Armando', 'Jan', 2, 572),
(98, 'American Express', 'Box 0001', NULL, 'Los Angeles', 'CA', '90096', '(800) 555-
3344', 'Story', 'Kirsten', 2, 160),
(99, 'Bertelsmann Industry Svcs. Inc', '28210 N Avenue
Stanford', NULL, 'Valencia', 'CA', '91355', '(805) 555-0584', 'Potter', 'Lance', 3,400),
(100, 'Cahners Publishing Company', 'Citibank Lock Box 4026', '8725 W Sahara Zone
       ,'The Lake','NV','89163','(301) 555-2162','Jacobsen','Samuel',4,540),
(101, 'California Business Machines', 'Gallery Plz', '5091 N
Fresno', 'Fresno', 'CA', '93710', '(559) 555-5570', 'Rohansen', 'Anders', 2, 170),
(102, 'Coffee Break Service', 'PO Box 1091', NULL, 'Fresno', 'CA', '93714', '(559) 555-
8700', 'Smitzen', 'Jeffrey', 4, 570),
(103, 'Dean Witter Reynolds', '9 River Pk Pl E 400', NULL, 'Boston', 'MA', '02134', '(508) 555-8737', 'Johnson', 'Vance', 5,589),
(104, 'Digital Dreamworks', '5070 N Sixth Ste.
71', NULL, 'Fresno', 'CA', '93711', NULL, 'Elmert', 'Ron', 3, 589),
(105, 'Dristas Groom & McCormick', '7112 N Fresno St Ste
200', NULL, 'Fresno', 'CA', '93720', '(559) 555-8484', 'Aaronsen', 'Thom', 3, 591),
```

```
(106, 'Ford Motor Credit Company', 'Dept 0419', NULL, 'Los Angeles', 'CA', '90084', '(800)
555-7000', 'Snyder', 'Karen', 3,582),
(107, 'Franchise Tax Board', 'PO Box
942857', NULL, 'Sacramento', 'CA', '94257', NULL, 'Prado', 'Anita', 4,507),
(108, 'Gostanian General Building', '427 W Bedford
#102', NULL, 'Fresno', 'CA', '93711', '(559) 555-5100', 'Bragg', 'Walter', 4, 523),
(109, 'Kent H Landsberg Co', 'File No 72686', 'PO Box 61000', 'San
Francisco', 'CA', '94160', '(916) 555-8100', 'Stevens', 'Wendy', 3, 540),
(110, 'Malloy Lithographing Inc', '5411 Jackson Road', 'PO Box 1124', 'Ann
Arbor', 'MI', '48106', '(313) 555-6113', 'Regging', 'Abe', 3, 400), (111, 'Net Asset, Llc', '1315 Van Ness Ave Ste.
103', NULL, 'Fresno', 'CA', '93721', NULL, 'Kraggin', 'Laura', 1, 572),
(112, 'Office Depot', 'File No 81901', NULL, 'Los Angeles', 'CA', '90074', '(800) 555-
1711', 'Pinsippi', 'Val', 3, 570),
(113, 'Pollstar', '4697 W Jacquelyn Ave', NULL, 'Fresno', 'CA', '93722', '(559) 555-
2631', 'Aranovitch', 'Robert', 5, 520),
(114, 'Postmaster', 'Postage Due Technician', '1900 E
Street', 'Fresno', 'CA', '93706', '(559) 555-7785', 'Finklestein', 'Fyodor', 1, 552),
(115, 'Roadway Package System, Inc', 'Dept La
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(116, 'State of California', 'Employment Development Dept', 'PO Box
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7600', 'Bluzinski', 'Rachael', 3, 582),
(119, 'Yesmed, Inc', 'PO Box 2061', NULL, 'Fresno', 'CA', '93718', '(559) 555-
0600', 'Hernandez', 'Reba', 2, 589),
(120, 'Dataforms/West', '1617 W. Shaw Avenue', 'Suite F', 'Fresno', 'CA', '93711', NULL, 'Church', 'Charlie', 3, 551),
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8625', 'Ronaldsen', 'Jaime', 3, 403),
(122, 'United Parcel Service', 'P.O. Box 505820', NULL, 'Reno', 'NV', '88905', '(800) 555-
0855', 'Beauregard', 'Violet', 3, 553),
(123, 'Federal Express Corporation', 'P.O. Box 1140', 'Dept
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(5, 'Davison', 'Michelle'),
(12, 'Mayteh', 'Kendall'),
(17, 'Onandonga', 'Bruce'),
(44, 'Antavius', 'Anthony'),
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(12,2,570,'75.60','Kinko\'s'),
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(92,1,521,'16.62','Propane-forklift'),
(93,1,553,'162.75','International shipment'),
(94,1,553,'52.25','Freight'),
(95,1,572,'600.00','Books for research'),
```

```
(96,1,400,'26881.40','MVS JCL'),
(97,1,170,'356.48','Network wiring'),
(98,1,572,'579.42','Catalog ad'),
(99,1,553,'59.97','Freight'),
(100, 1, 553, '67.92', 'Freight'),
(101,1,553,'30.75','Freight'),
(102,1,400,'20551.18','CICS book printing'), (103,1,553,'2051.59','Freight'),
(104,1,553,'44.44','Freight'),
(105,1,582,'503.20','Bronco lease'),
(106,1,400,'23517.58','DB2 book printing'), (107,1,553,'3689.99','Freight'),
(108, 1, 553, '67.00', 'Freight'),
(109, 1, 403, '1000.46', 'Crash Course covers'),
(110,1,540,'90.36','Card deck advertising'), (111,1,553,'22.57','Freight'), (112,1,400,'10976.06','VSAM book printing'),
(113,1,510,'224.00','Health Insurance'), (114,1,553,'127.75','Freight');
__ *************
-- CREATE THE EX DATABASE
__ *************
-- create the database
DROP DATABASE IF EXISTS ex;
CREATE DATABASE ex;
-- select the database
USE ex;
-- example tables for chapter 3
CREATE TABLE null_sample
  invoice_id
                                            NOT NULL,
                      INT
  invoice_total
                      DECIMAL(9,2),
  CONSTRAINT invoice_id_uq
    UNIQUE (invoice_id)
);
INSERT INTO null_sample VALUES
(1, 125),
(2,0),
(3, null),
(4,2199.99),
(5,0);
-- example tables for chapter 4
CREATE TABLE departments
  department_number
                           INT
                                            NOT NULL,
                           VARCHAR(50)
                                            NOT NULL,
  department_name
  CONSTRAINT department number ung
    UNIQUE (department_number)
);
INSERT INTO departments VALUES
(1, 'Accounting'),
(2, 'Payroll'),
```

```
(3, 'Operations'),
(4, 'Personnel'),
(5, 'Maintenance');
CREATE TABLE employees
  employee_id
                         INT
                                              NOT NULL,
                         VARCHAR (35)
                                              NOT NULL,
  last_name
  first_name
                         VARCHAR (35)
                                              NOT NULL,
  department_number
                                              NOT NULL,
                         INT
                         INT
  manager_id
);
INSERT INTO employees VALUES
(1, 'Smith', 'Cindy', 2, null), (2, 'Jones', 'Elmer', 4, 1),
(3, 'Simonian', 'Ralph', 2, 2),
(4, 'Hernandez', 'Olivia', 1,9), (5, 'Aaronsen', 'Robert', 2,4),
(6, 'Watson', 'Denise', 6, 8),
(7, 'Hardy', 'Thomas', 5, 2),
(8,'0''Leary','Rhea',4,9),
(9,'Locario','Paulo',6,1);
CREATE TABLE projects
  project_number
                       VARCHAR(5)
                                       NOT NULL,
                                       NOT NULL
  employee_id
                       INT
);
INSERT INTO projects VALUES
('P1011',8),
('P1011',4),
('P1012',3),
('P1012',1),
('P1012',5),
('P1013',6),
('P1013',9),
('P1014',10);
CREATE TABLE customers
                                               NOT NULL,
  customer_id
                          INT
                          VARCHAR(30),
  customer_last_name
                          VARCHAR(30),
  customer_first_name
  customer_address
                          VARCHAR(60),
  customer_city
                          VARCHAR(15),
  customer_state
                          VARCHAR(15),
  customer_zip
                          VARCHAR(10),
  customer_phone
                          VARCHAR(24)
);
INSERT INTO customers VALUES
(1, 'Anders', 'Maria', '345 Winchell Pl', 'Anderson', 'IN', '46014', '(765) 555-
7878'),
(2, 'Trujillo', 'Ana', '1298 E Smathers St', 'Benton', 'AR', '72018', '(501) 555-
7733'),
(3, 'Moreno', 'Antonio', '6925 N Parkland Ave', 'Puyallup', 'WA', '98373', '(253)
555-8332'),
```

```
(4, 'Hardy', 'Thomas', '83 d''Urberville Ln', 'Casterbridge', 'GA', '31209', '(478)
555-1139'),
(5, 'Berglund', 'Christina', '22717 E 73rd Ave', 'Dubuque', 'IA', '52004', '(319)
555-1139'),
(6, 'Moos', 'Hanna', '1778 N Bovine Ave', 'Peoria', 'IL', '61638', '(309) 555-
(7, 'Citeaux', 'Fred', '1234 Main St', 'Normal', 'IL', '61761', '(309) 555-1914'),
(8, 'Summer', 'Martin', '1877 Ete Ct', 'Frogtown', 'LA', '70563', '(337) 555-
9441'),
(9, 'Lebihan', 'Laurence', '717 E Michigan Ave', 'Chicago', 'IL', '60611', '(312)
555-9441'),
(10, 'Lincoln', 'Elizabeth', '4562 Rt 78 E', 'Vancouver', 'WA', '98684', '(360)
555-2680'),
(11, 'Snyder', 'Howard', '2732 Baker Blvd.', 'Eugene', 'OR', '97403', '(503) 555-
7555'), (12, 'Latimer', 'Yoshi', 'City Center Plaza 516 Main St.', 'Elgin', 'OR', '97827',
'(503) 555-6874'),
(13, 'Steel', 'John', '12 Orchestra Terrace', 'Walla Walla', 'WA', '99362', '(509)
555-7969'),
(14, 'Yorres', 'Jaime', '87 Polk St. Suite 5', 'San Francisco', 'CA', '94117',
'(415) 555-5938'),
(15, Wilson', 'Fran', '89 Chiaroscuro Rd.', 'Portland', 'OR', '97219', '(503) 555-
(16, 'Phillips', 'Rene', '2743 Bering St.', 'Anchorage', 'AK', '99508', '(907) 555-
7584'),
(17, 'Wilson', 'Paula', '2817 Milton Dr.', 'Albuquerque', 'NM', '87110', '(505)
555-5939'),
(18, 'Pavarotti', 'Jose', '187 Suffolk Ln.', 'Boise', 'ID', '83720', '(208) 555-
8097'),
(19, 'Braunschweiger', 'Art', 'P.O. Box 555', 'Lander', 'WY', '82520', '(307) 555-
4680'),
(20, 'Nixon', 'Liz', '89 Jefferson Way Suite 2', 'Providence', 'RI', '02909',
'(401) 555-3612'),
(21, 'Wong', 'Liu', '55 Grizzly Peak Rd.', 'Butte', 'MT', '59801', '(406) 555-
5834'),
(22, 'Nagy', 'Helvetius', '722 DaVinci Blvd.', 'Concord', 'MA', '01742', '(351)
555-1219'),
(23, 'Jablonski', 'Karl', '305 - 14th Ave. S. Suite 3B', 'Seattle', 'WA', '98128',
'(206) 555-4112'),
(24, 'Chelan', 'Donna', '2299 E Baylor Dr', 'Dallas', 'TX', '75224', '(469) 555-
8828');
-- example tables for chapter 7
CREATE TABLE color_sample
                                               AUTO_INCREMENT,
  color_id
                   INT
                                 NOT NULL
  color_number
                                 NOT NULL
                   INT
                                               DEFAULT 0,
                   VARCHAR(50),
  color_name
  CONSTRAINT color_sample_pk
    PRIMARY KEY (color_id)
);
INSERT INTO color_sample (color_number)
VALUES (606);
INSERT INTO color_sample (color_name)
VALUES ('Yellow');
```

```
INSERT INTO color_sample
VALUES (3, DEFAULT, 'Orange');
INSERT INTO color_sample
VALUES (4, 808, NULL);
INSERT INTO color_sample
VALUES (5, DEFAULT, NULL);
-- example tables for chapter 8
CREATE TABLE string_sample
  emp_id
                 VARCHAR(3),
  emp_name
                 VARCHAR (25)
);
INSERT INTO string_sample VALUES
('1', 'Lizbeth Darien'),
     'Darnell O''Sullivan'),
('17', 'Lance Pinos-Potter'),
('20', 'Jean Paul Renard'),
('3', 'Alisha von Strump');
CREATE TABLE float_sample
  float_id
                  INT,
  float_value
                  DOUBLE
);
INSERT INTO float_sample VALUES
(1, 0.999999999999),
(2, 1),
(3, 1.000000000000000),
(4, 1234.56789012345),
(5, 999.04440209348),
(6, 24.04849);
CREATE TABLE date_sample
  date_id
                 INT
                           NOT NULL,
  start_date
                 DATETIME
INSERT INTO date_sample VALUES
(1, '1979-03-01 00:00:00'),
(2, '1999-02-28 00:00:00'),
(3, '2003-10-31 00:00:00'),
(4, '2011-02-28 10:00:00'),
(5, '2012-02-28 13:58:32'),
(6, '2012-03-01 09:02:25');
CREATE TABLE active_invoices
  invoice_id
                     INT
                                    NOT NULL,
                     INT
  vendor_id
                                    NOT NULL,
  invoice_number
                     VARCHAR(50)
                                    NOT NULL,
```

```
invoice_date
                      DATE
                                      NOT NULL,
  invoice_total
                      DECIMAL(9,2)
                                      NOT NULL,
                      DECIMAL(9,2)
  payment_total
                                      NOT NULL,
  credit_total
                      DECIMAL(9,2)
                                      NOT NULL,
  terms id
                      INT
                                      NOT NULL,
  invoice due date
                      DATE
                                      NOT NULL,
  payment_date
                      DATE
);
INSERT INTO active_invoices VALUES
(3, 110, 'P-0608', '2011-04-11', '20551.18', '0.00', '1200.00', 5, '2011-06-30',
NULL),
(6, 122, '989319-497', '2011-04-17', '2312.20', '0.00', '0.00', 4, '2011-06-26',
NULL),
(8, 122, '989319-487', '2011-04-18', '1927.54', '0.00', '0.00', 4, '2011-06-19',
NULL),
(15, 121, '97/553B', '2011-04-26', '313.55', '0.00', '0.00', 4, '2011-07-09',
NULL),
(18, 121, '97/553', '2011-04-27', '904.14', '0.00', '0.00', 4, '2011-07-09', NULL),
(19, 121, '97/522', '2011-04-30', '1962.13', '0.00', '200.00', 4, '2011-07-10',
NULL),
(30, 94, '203339-13', '2011-05-02', '17.50', '0.00', '0.00', 3, '2011-06-13',
NULL),
(34, 110, '0-2436', '2011-05-07', '10976.06', '0.00', '0.00', 4, '2011-07-17',
NULL),
(38, 123, '963253272', '2011-05-09', '61.50', '0.00', '0.00', 4, '2011-06-29',
NULL),
(39, 123, '963253271', '2011-05-09', '158.00', '0.00', '0.00', 4, '2011-06-28',
NULL),
(40, 123, '963253269', '2011-05-09', '26.75', '0.00', '0.00', 4, '2011-06-25',
NULL),
(41, 123, '963253267', '2011-05-09', '23.50', '0.00', '0.00', 4, '2011-06-24',
NULL),
(42, 97, '21-4748363', '2011-05-09', '9.95', '0.00', '0.00', 4, '2011-06-25',
NULL),
(44, 123, '963253264', '2011-05-10', '52.25', '0.00', '0.00', 4, '2011-06-23',
NULL),
(45, 123, '963253263', '2011-05-10', '109.50', '0.00', '0.00', 4, '2011-06-22',
(67, 123, '43966316', '2011-05-17', '10.00', '0.00', '0.00', 3, '2011-06-19',
NULL),
(68, 123, '263253273', '2011-05-17', '30.75', '0.00', '0.00', 4, '2011-06-29',
NULL),
(69, 37, '547479217', '2011-05-17', '116.00', '0.00', '0.00', 3, '2011-06-22',
NULL),
(70, 123, '263253270', '2011-05-18', '67.92', '0.00', '0.00', 3, '2011-06-25',
NULL),
(71, 123, '263253268', '2011-05-18', '59.97', '0.00', '0.00', 3, '2011-06-24',
NULL),
(72, 123, '263253265', '2011-05-18', '26.25', '0.00', '0.00', 3, '2011-06-23',
NULL),
(79, 123, '963253262', '2011-05-22', '42.50', '0.00', '0.00', 3, '2011-06-21',
(81, 83, '31359783', '2011-05-23', '1575.00', '0.00', '0.00', 2, '2011-06-09',
NULL),
(82, 115, '25022117', '2011-05-24', '6.00', '0.00', '0.00', 3, '2011-06-21', NULL), (88, 86, '367447', '2011-05-31', '2433.00', '0.00', '0.00', 3, '2011-06-30', NULL), (91, 80, '134116', '2011-06-01', '90.36', '0.00', '0.00', 3, '2011-07-02', NULL), (94, 106, '9982771', '2011-06-03', '503.20', '0.00', '0.00', 2, '2011-06-18',
```

```
NULL),
(98, 95, '111-92R-10092', '2011-06-04', '46.21', '0.00', '0.00', 1, '2011-06-29',
NULL),
(99, 95, '111-92R-10093', '2011-06-05', '39.77', '0.00', '0.00', 2, '2011-06-28',
NULL),
(100, 96, 'I77271-001', '2011-06-05', '662.00', '0.00', '0.00', 2, '2011-06-24',
NULL),
(103, 95, '111-92R-10094', '2011-06-06', '19.67', '0.00', '0.00', 1, '2011-06-27',
NULL),
(105, 95, '111-92R-10095', '2011-06-07', '32.70', '0.00', '0.00', 3, '2011-06-26',
NULL),
(106, 95, '111-92R-10096', '2011-06-08', '16.33', '0.00', '0.00', 2, '2011-06-25',
(107, 95, '111-92R-10097', '2011-06-08', '16.33', '0.00', '0.00', 1, '2011-06-24',
NULL),
(109, 102, '109596', '2011-06-14', '41.80', '0.00', '0.00', 3, '2011-07-11', NULL), (110, 72, '39104', '2011-06-20', '85.31', '0.00', '0.00', 3, '2011-07-20', NULL),
(111, 37, '547480102', '2011-05-19', '224.00', '0.00', '0.00', 3, '2011-06-24',
(112, 37, '547481328', '2011-05-20', '224.00', '0.00', '0.00', 3, '2011-06-25',
NULL),
(113, 72, '40318', '2011-07-18', '21842.00', '0.00', '0.00', 3, '2011-07-20',
NULL),
(114, 83, '31361833', '2011-05-23', '579.42', '0.00', '0.00', 2, '2011-06-09',
NULL);
CREATE TABLE paid_invoices
  invoice_id
                     INT
                                    NOT NULL,
  vendor id
                                    NOT NULL,
                     INT
                     VARCHAR(50)
                                    NOT NULL,
  invoice_number
  invoice_date
                                    NOT NULL,
                     DATE
  invoice_total
                     DECIMAL(9,2)
                                   NOT NULL,
  payment_total
                     DECIMAL(9,2)
                                   NOT NULL,
                                   NOT NULL,
  credit_total
                     DECIMAL(9,2)
  terms id
                                    NOT NULL,
                     INT
  invoice_due_date
                     DATE
                                    NOT NULL,
  payment_date
                     DATE
);
INSERT INTO paid_invoices VALUES
(2, 34, 'Q545443', '2011-03-14', '1083.58', '1083.58', '0.00', 4, '2011-05-23',
'2011-05-14'),
(4, 110, 'P-0259', '2011-04-16', '26881.40', '26881.40', '0.00', 3, '2011-05-16',
'2011-05-12'),
(5, 81, 'MAB01489', '2011-04-16', '936.93', '936.93', '0.00', 3, '2011-05-16',
'2011-05-13'),
(7, 82, 'C73-24', '2011-04-17', '600.00', '600.00', '0.00', 2, '2011-05-10', '2011-
05-05'),
(9, 122, '989319-477', '2011-04-19', '2184.11', '2184.11', '0.00', 4, '2011-06-12',
'2011-06-07'),
(10, 122, '989319-467', '2011-04-24', '2318.03', '2318.03', '0.00', 4, '2011-06-
05', '2011-05-29'),
(11, 122, '989319-457', '2011-04-24', '3813.33', '3813.33', '0.00', 3, '2011-05-
29', '2011-05-20'),
(12, 122, '989319-447', '2011-04-24', '3689.99', '3689.99', '0.00', 3, '2011-05-
22', '2011-05-12'),
(13, 122, '989319-437', '2011-04-24', '2765.36', '2765.36', '0.00', 2, '2011-05-
15', '2011-05-03'),
```

```
(14, 122, '989319-427', '2011-04-25', '2115.81', '2115.81', '0.00', 1, '2011-05-
08', '2011-05-01'),
(16, 122, '989319-417', '2011-04-26', '2051.59', '2051.59', '0.00', 1, '2011-05-
    '2011-04-28'),
(17, 90, '97-1024A', '2011-04-26', '356.48', '356.48', '0.00', 3, '2011-06-09',
'2011-06-09'),
(20, 121, '97/503', '2011-04-30', '639.77', '639.77', '0.00', 4, '2011-06-11',
'2011-06-05'),
(21, 121, '97/488', '2011-04-30', '601.95', '601.95', '0.00', 3, '2011-06-03',
2011-05-27'),
(22, 121, '97/486', '2011-04-30', '953.10', '953.10', '0.00', 2, '2011-05-21',
'2011-05-13'),
(23, 121, '97/465', '2011-05-01', '565.15', '565.15', '0.00', 1, '2011-05-14',
'2011-05-05'),
(24, 121, '97/222', '2011-05-01', '1000.46', '1000.46', '0.00', 3, '2011-06-03',
<sup>`</sup>2011-05-25'),
(25, 123, '4-342-8069', '2011-05-01', '10.00', '10.00', '0.00', 4, '2011-06-10',
'2011-05-27'),
(26, 123, '4-327-7357', '2011-05-01', '162.75', '162.75', '0.00', 3, '2011-05-27',
'2011-05-21'),
(27, 123, '4-321-2596', '2011-05-01', '10.00', '10.00', '0.00', 2, '2011-05-20',
'2011-05-11'),
(28, 123, '7548906-20', '2011-05-01', '27.00', '27.00', '0.00', 3, '2011-06-06',
<sup>'</sup>2011-05-26'),
(29, 123, '4-314-3057', '2011-05-02', '13.75', '13.75', '0.00', 1, '2011-05-13',
2011-05-07'),
(31, 123, '2-000-2993', '2011-05-03', '144.70', '144.70', '0.00', 1, '2011-05-06',
'2011-05-04'),
(32, 89, '125520-1', '2011-05-05', '95.00', '95.00', '0.00', 3, '2011-06-08',
2011-05-22'),
(33, 123, '1-202-2978', '2011-05-06', '33.00', '33.00', '0.00', 1, '2011-05-20',
'2011-05-13'),
(35, 123, '1-200-5164', '2011-05-07', '63.40', '63.40', '0.00', 1, '2011-05-13',
2011-05-10'),
(36, 110, '0-2060', '2011-05-08', '23517.58', '21221.63', '2295.95', 3, '2011-06-
09', '2011-06-10'),
(37, 110, '0-2058', '2011-05-08', '37966.19', '37966.19', '0.00', 3, '2011-06-09',
'2011-05-31'),
(43, 97, '21-4923721', '2011-05-09', '9.95', '9.95', '0.00', 1, '2011-05-21',
'2011-05-13'),
(46, 123, '963253261', '2011-05-10', '42.75', '42.75', '0.00', 3, '2011-06-16',
'2011-06-10'),
(47, 123, '963253260', '2011-05-10', '36.00', '36.00', '0.00', 3, '2011-06-15',
2011-06-06'),
(48, 123, '963253258', '2011-05-10', '111.00', '111.00', '0.00', 3, '2011-06-11',
'2011-05-31'),
(49, 123, '963253256', '2011-05-10', '53.25', '53.25', '0.00', 3, '2011-06-10',
'2011-05-27'),
(50, 123, '963253255', '2011-05-11', '53.75', '53.75', '0.00', 3, '2011-06-09',
'2011-06-03'),
(51, 123, '963253254', '2011-05-11', '108.50', '108.50', '0.00', 3, '2011-06-08',
'2011-05-30'),
(52, 123, '963253252', '2011-05-11', '38.75', '38.75', '0.00', 3, '2011-06-07',
'2011-05-27'),
(53, 123, '963253251', '2011-05-11', '15.50', '15.50', '0.00', 3, '2011-06-04',
'2011-05-21'),
(54, 123, '963253249', '2011-05-12', '127.75', '127.75', '0.00', 2, '2011-06-03',
'2011-05-28'),
(55, 123, '963253248', '2011-05-13', '241.00', '241.00', '0.00', 2, '2011-06-02',
```

```
'2011-05-24'),
(56, 123, '963253246', '2011-05-13', '129.00', '129.00', '0.00', 2, '2011-05-31',
'2011-05-20'),
(57, 123, '963253245', '2011-05-13', '40.75', '40.75', '0.00', 2, '2011-05-28',
'2011-05-14'),
(58, 123, '963253244', '2011-05-13', '60.00', '60.00', '0.00', 2, '2011-05-27',
'2011-05-21'),
(59, 123, '963253242', '2011-05-13', '104.00', '104.00', '0.00', 2, '2011-05-26',
'2011-05-17'),
(60, 123, '963253240', '2011-05-23', '67.00', '67.00', '0.00', 1, '2011-06-03',
2011-05-28'),
(61, 123, '963253239', '2011-05-23', '147.25', '147.25', '0.00', 1, '2011-06-02',
'2011-05-28'),
(62, 123, '963253237', '2011-05-23', '172.50', '172.50', '0.00', 1, '2011-05-30',
'2011-05-24'),
(63, 123, '963253235', '2011-05-14', '108.25', '108.25', '0.00', 1, '2011-05-20',
2011-05-17'),
(64, 123, '963253234', '2011-05-14', '138.75', '138.75', '0.00', 1, '2011-05-19',
2011-05-16'),
(65, 123, '963253232', '2011-05-14', '127.75', '127.75', '0.00', 1, '2011-05-18',
'2011-05-16'),
(66, 123, '963253230', '2011-05-15', '739.20', '739.20', '0.00', 1, '2011-05-17',
'2011-05-16'),
(73, 123, '263253257', '2011-05-18', '22.57', '22.57', '0.00', 2, '2011-06-10',
'2011-05-27'),
(74, 123, '263253253', '2011-05-18', '31.95', '31.95', '0.00', 2, '2011-06-07',
'2011-06-01'),
(75, 123, '263253250', '2011-05-19', '42.67', '42.67', '0.00', 2, '2011-06-03',
'2011-05-25'),
(76, 123, '263253243', '2011-05-20', '44.44', '44.44', '0.00', 1, '2011-05-26',
2011-05-23'),
(77, 123, '263253241', '2011-05-20', '40.20', '40.20', '0.00', 1, '2011-05-25',
'2011-05-22'),
(78, 123, '94007069', '2011-05-22', '400.00', '400.00', '0.00', 3, '2011-07-01',
'2011-06-25'),
(80, 105, '94007005', '2011-05-23', '220.00', '220.00', '0.00', 1, '2011-05-30',
'2011-05-26'),
(83, 115, '24946731', '2011-05-25', '25.67', '25.67', '0.00', 2, '2011-06-14',
'2011-05-28'),
(84, 115, '24863706', '2011-05-27', '6.00', '6.00', '0.00', 1, '2011-06-07', '2011-
(85, 115, '24780512', '2011-05-29', '6.00', '6.00', '0.00', 1, '2011-05-31', '2011-
Ò5-30'),
(86, 88, '972110', '2011-05-30', '207.78', '207.78', '0.00', 1, '2011-06-06',
'2011-06-02'),
(87, 100, '587056', '2011-05-31', '2184.50', '2184.50', '0.00', 3, '2011-06-28',
'2011-06-22'),
(89, 99, '509786', '2011-05-31', '6940.25', '6940.25', '0.00', 2, '2011-06-16',
'2011-06-08'),
(90, 108, '121897', '2011-06-01', '450.00', '450.00', '0.00', 2, '2011-06-19',
<sup>`</sup>2011-06-14'),
(92, 80, '133560', '2011-06-01', '175.00', '175.00', '0.00', 2, '2011-06-20',
'2011-06-03'),
(93, 104, 'P02-3772', '2011-06-03', '7125.34', '7125.34', '0.00', 2, '2011-06-18',
'2011-06-08'),
(95, 107, 'RTR-72-3662-X', '2011-06-04', '1600.00', '1600.00', '0.00', 2, '2011-06-
18', '2011-06-11'),
(96, 113, '77290', '2011-06-04', '1750.00', '1750.00', '0.00', 2, '2011-06-18',
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(97, 119, '10843', '2011-06-04', '4901.26', '4901.26', '0.00', 2, '2011-06-18',
'2011-06-11'),
(101, 103, '75C-90227', '2011-06-06', '1367.50', '1367.50', '0.00', 1, '2011-06-
13', '2011-06-09'),
(102, 48, 'P02-88D77S7', '2011-06-06', '856.92', '856.92', '0.00', 1, '2011-06-13',
'2011-06-09'),
(104, 114, 'CBM9920-M-T77109', '2011-06-07', '290.00', '290.00', '0.00', 1, '2011-
06-12', '2011-06-09'),
(108, 117, '111897', '2011-06-11', '16.62', '16.62', '0.00', 1, '2011-06-14',
'2011-06-12');
__ ***************
-- CREATE THE OM DATABASE
__ *************
-- create database
DROP DATABASE IF EXISTS om;
CREATE DATABASE om;
-- select database
USE om;
-- create tables
CREATE TABLE customers
 customer_id
                        INT
                                       NOT NULL,
 customer_first_name
                       VARCHAR(50),
 customer_last_name
                                       NOT NULL,
                       VARCHAR (50)
 customer_address
                       VARCHAR (255)
                                       NOT NULL,
                                       NOT NULL,
 customer_city
                       VARCHAR(50)
                       CHAR(2)
                                       NOT NULL,
 customer_state
                                       NOT NULL,
 customer_zip
                       VARCHAR (20)
 customer_phone
                       VARCHAR(30)
                                       NOT NULL,
 customer_fax
                       VARCHAR(30),
 CONSTRAINT customers_pk
    PRIMARY KEY (customer_id)
);
CREATE TABLE items
                               NOT NULL,
  item_id
               INT
               VARCHAR(50)
                               NOT NULL,
 title
                               NOT NULL,
 artist
               VARCHAR (50)
                               NOT NULL,
 unit_price
               DECIMAL(9,2)
 CONSTRAINT items_pk
    PRIMARY KEY (item_id),
 CONSTRAINT title_artist_ung
   UNIQUE (title, artist)
);
CREATE TABLE orders
 order id
                    INT
                               NOT NULL,
                               NOT NULL,
 customer_id
                   INT
 order_date
                               NOT NULL,
                   DATE
  shipped_date
                   DATE,
 CONSTRAINT orders_pk
   PRIMARY KEY (order_id),
 CONSTRAINT orders_fk_customers
```

```
FOREIGN KEY (customer_id) REFERENCES customers (customer_id)
);
CREATE TABLE order_details
   order id
                          INT
                                                NOT NULL,
   item id
                          INT
                                                NOT NULL,
                                                NOT NULL,
   order_qty
                          INT
   CONSTRAINT order_details_pk
       PRIMARY KEY (order_id, item_id),
   CONSTRAINT order_details_fk_orders
       FOREIGN KEY (order_id)
       REFERENCES orders (order_id),
   CONSTRAINT order_details_fk_items
       FOREIGN KEY (item_id)
       REFERENCES items (item_id)
);
-- insert rows into tables
INSERT INTO customers VALUES
(1,'Korah','Blanca','1555 W Lane
Ave','Columbus','OH','43221','6145554435','6145553928'),
(2,'Yash','Randall','11 E Rancho Madera
Rd','Madison','WI','53707','2095551205','2095552262'),
(3,'Johnathon','Millerton','60 Madison Ave','New
York', 'NY', '10010', '2125554800', 'NULL'),
YORK', NY', 10010 , 2125554600 , NOLL ,,

(4,'Mikayla','Damion','2021 K Street

Nw','Washington','DC','20006','2025555561','NULL'),

(5,'Kendall','Mayte','4775 E Miami River

Rd','Cleves','OH','45002','5135553043','NULL'),

(6,'Kaitlin','Hostlery','3250 Spring Grove

Ave','Cincinnati','OH','45225','8005551957','8005552826'),
(7, 'Derek', 'Chaddick', '9022 E Merchant
Wy', 'Fairfield', 'IA', '52556', '5155556130', 'NULL'),
(8, 'Deborah', 'Damien', '415 E Olive Ave', 'Fresno', 'CA', '93728', '5595558060', 'NULL'),
(9, 'Karina', 'Lacy', '882 W Easton Wy', 'Los
Angeles', 'CA', '90084', '8005557000', 'NULL'), (10, 'Kurt', 'Nickalus', '28210 N Avenue Stanford', 'Valencia', 'CA', '91355', '8055550584', '055556689'),
(11, 'Kelsey', 'Eulalia', '7833 N Ridge
Rd', 'Sacramento', 'CA', '95887', '2095557500', '2095551302'),
(12, 'Anders', 'Rohansen', '12345 E 67th Ave NW', 'Takoma
Park', 'MD', '24512', '3385556772', 'NULL'),
(13, 'Thalia', 'Neftaly', '2508 W Shaw
Ave', 'Fresno', 'CA', '93711', '5595556245', 'NULL'),
(14, 'Gonzalo', 'Keeton', '12 Daniel
Road', 'Fairfield', 'NJ', '07004', '2015559742', 'NULL'),
(15, 'Ania', 'Irvin', '1099 N Farcourt St', 'Orange', 'CA', '92807', '7145559000', 'NULL'),
(16, 'Dakota', 'Baylee', '1033 N Sycamore Ave.', 'Los Angeles', 'CA', '90038', '2135554322', 'NULL'), (17, 'Samuel', 'Jacobsen', '3433 E Widget Ave', 'Palo
Alto', 'CA', '92711', '4155553434', 'NULL'),
(18, 'Justin', 'Javen', '828 S
Broadway', 'Tarrytown', 'NY', '10591', '8005550037', 'NULL'),
(19, 'Kyle', 'Marissa', '789 E Mercy Ave', 'Phoenix', 'AZ', '85038', '9475553900', 'NULL'),
(20, 'Erick', 'Kaleigh', 'Five Lakepointe Plaza, Ste
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500', 'Charlotte', 'NC', '28217', '7045553500', 'NULL'),
(21, 'Marvin', 'Quintin', '2677 Industrial Circle
    'Columbus','OH','43260','6145558600','6145557580'),
(22, 'Rashad', 'Holbrooke', '3467 W Shaw Ave
#103','Fresno','CA','93711','5595558625','5595558495'),
(23,'Trisha','Anum','627 Aviation Way','Manhatttan
Beach','CA','90266','3105552732','NULL'),
(24, 'Julian', 'Carson', '372 San Quentin', 'San
Francisco', 'CA', '94161', '6175550700', 'NULL'),
(25, 'Kirsten', 'Story', '2401 Wisconsin Ave NW', 'Washington', 'DC', '20559', '2065559115', 'NULL');
INSERT INTO items (item_id,title,artist,unit_price) VALUES
(1, 'Umami In Concert', 'Umami', 17.95),
(2, 'Race Car Sounds', 'The Ubernerds', 13),
(3, 'No Rest For The Weary', 'No Rest For The Weary', 16.95),
(4, 'More Songs About Structures and Comestibles', 'No Rest For The Weary', 17.95),
(5, 'On The Road With Burt Ruggles', 'Burt Ruggles', 17.5),
(6, 'No Fixed Address', 'Sewed the Vest Pocket', 16.95),
(7, 'Rude Noises', 'Jess & Odie', 13),
(8, 'Burt Ruggles: An Intimate Portrait', 'Burt Ruggles', 17.95),
(9, 'Zone Out With Umami', 'Umami', 16.95),
(10, 'Etcetera', 'Onn & Onn', 17);
INSERT INTO orders VALUES
(19, 1, '2009-10-23', '2009-10-28'),
(29, 8, 2009-11-10', '2009-11-13'), (32, 11, '2009-11-10', '2009-11-30'),
(29, 8, '2009-11-05',
                         '2009-11-11'),
                          '2009-11-13'),
(70, 10, '2009-12-28',
                           '2010-01-07'),
(89, 22, '2010-01-20',
                           '2010-01-22'),
                           '2010-02-02'),
(97, 20, '2010-01-29',
                           '2010-02-28'),
(118, 3, '2010-02-24',
(144, 17, '2010-03-21',
                           '2010-03-29'),
(158, 9, '2010-04-04',
                          '2010-04-20'),
(165, 14,
(180, 24,
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                            '2010-04-13'),
           '2010-04-25',
                            '2010-05-30'),
           '2010-06-14',
                            '2010-06-22'),
(231, 15,
(242, 23, '2010-06-24',
                            '2010-07-06'),
(264, 9, '2010-07-15'
                           '2010-07-18'),
(298, 18, '2010-08-18',
                           '2010-09-22'),
          '2010-09-09',
                           '2010-10-05'),
(321, 2,
(381, 7,
          '2010-11-08'
                           '2010-11-16'),
(392, 19, '2010-11-16',
                            '2010-11-23'),
(413, 17, '2010-12-05', '2011-01-11'),
          '2010-12-28',
                           '2011-01-03'),
(442, 5,
          '2011-01-30',
                           '2011-03-03'),
(479, 1,
(491, 16, '2011-02-08',
                           '2011-02-14'),
          '2011-02-10',
                           '2011-02-14'),
(494, 4,
(523, 3,
          '2011-03-07'
                           '2011-03-15'),
          '2011-03-22',
                           '2011-04-18'),
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           '2011-03-23', '2011-04-03'),
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(601, 16, '2011-04-21',
                            '2011-04-27'),
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                           '2011-05-02'),
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                           '2011-05-04'),
(624, 2, '2011-05-04'
                          '2011-05-09'),
(627, 17, '2011-05-05', '2011-05-10'),
(630, 20, '2011-05-08', '2011-05-18'),
(631, 21, '2011-05-09', '2011-05-11'),
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(651, 12,
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(687, 17,
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                             '2011-06-08'),
(693, 9,
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           '2011-06-12',
                             '2011-06-19'),
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(773, 25,
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            '2011-07-11',
(778, 13,
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                             '2011-07-21'),
(796, 17,
            '2011-07-19',
                             '2011-07-26'),
           '2011-07-21', '2011-0, _ '2011-07-31'),
(800, 19,
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          '2011-07-21',
(802, 2,
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(824, 1,
(827, 18, '2011-08-02', NULL),
(829, 9, '2011-08-02', NULL);
INSERT INTO order_details VALUES
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