

INST327 - Database Design and Modeling

Assignment 1 Questions

Be sure to complete all four questions.

Please consult the rubric and instruction sheets before starting the assignment. Usage of keywords or structures that are not allowed will result in point deductions.

If your year numbers do not match the previews then this is likely due to SQL version differences or a different script for creating your schemas. As long as the day/month values correspond to the preview then it is still correct.

Q1.) (25 points) Use the *ap* database for this question. Write a query that selects vendors from California and replicates the result set shown below, matching all data and format aspects, including column headers. Pay special attention to the order of rows.

	Vendor	Phone Number	City	Address
▶	Aztek Label	Phone #: (714) 555-9000	Anaheim	Accounts Payable
	Blue Shield of California	Phone #: (415) 555-5103	Anaheim	PO Box 7021
	Diversified Printing & Pub	Phone #: (714) 555-4541	Brea	2632 Saturn St
	Abbey Office Furnishings	Phone #: (559) 555-8300	Fresno	4150 W Shaw Ave
	ASC Signs	NULL	Fresno	1528 N Sierra Vista
	BFI Industries	Phone #: (559) 555-1551	Fresno	PO Box 9369
	Bill Marvin Electric Inc	Phone #: (559) 555-5106	Fresno	4583 E Home
	California Business Machines	Phone #: (559) 555-5570	Fresno	Gallery Plz
	California Data Marketing	Phone #: (559) 555-3801	Fresno	2818 E Hamilton
	City Of Fresno	Phone #: (559) 555-9999	Fresno	PO Box 2069
	Coffee Break Service	Phone #: (559) 555-8700	Fresno	PO Box 1091
	Costco	NULL	Fresno	Fresno Warehouse
	Crown Printing	Phone #: (559) 555-7473	Fresno	1730 "H" St
	Dataforms/West	NULL	Fresno	1617 W. Shaw Av...
	Digital Dreamworks	NULL	Fresno	5070 N Sixth Ste. 71
	Dristas Groom & McCormick	Phone #: (559) 555-8484	Fresno	7112 N Fresno St ...
	Executive Office Products	Phone #: (559) 555-1704	Fresno	353 E Shaw Ave
	Expedata Inc	Phone #: (559) 555-9586	Fresno	4420 N. First Stre...

The result should contain 75 rows. Only a subset is shown in this preview.

Q2.) (25 points) Use the *om database* for this question. Write a query that replicates the result set below, matching all data and format aspects, including column headers. **For this question, you must use a UNION. Points will be deducted for using IFNULL, COALESCE, etc.**

	order_date	shipped_date	customer_state	customer_address	customer_full_name
►	2014-08-02	Not yet shipped	NY	828 S Broadway	Justin Javen
	2014-08-02	Not yet shipped	CA	882 W Easton Wy	Karina Lacy
	2014-08-01	Not yet shipped	OH	1555 W Lane Ave	Korah Blanca
	2014-07-21	2014-07-31	WI	11 E Rancho Madera Rd	Yash Randall
	2014-07-21	2014-07-28	AZ	789 E Mercy Ave	Kyle Marissa
	2014-07-19	2014-07-26	CA	3433 E Widget Ave	Samuel Jacobsen
	2014-07-12	2014-07-21	CA	2508 W Shaw Ave	Thalia Neftaly
	2014-07-11	2014-07-13	DC	2401 Wisconsin Ave NW	Kirsten Story
	2014-06-12	2014-06-19	AZ	789 E Mercy Ave	Kyle Marissa
	2014-06-07	2014-06-19	CA	882 W Easton Wy	Karina Lacy
	2014-06-05	2014-06-08	CA	3433 E Widget Ave	Samuel Jacobsen
	2014-05-23	2014-06-02	MD	12345 E 67th Ave NW	Anders Rohansen
	2014-05-19	2014-06-02	MD	12345 E 67th Ave NW	Anders Rohansen
	2014-05-09	2014-05-11	OH	2677 Industrial Circle Dr	Marvin Quintin
	2014-05-08	2014-05-18	NC	Five Lakepointe Plaza, ...	Erick Kaleigh
	2014-05-05	2014-05-10	CA	3433 E Widget Ave	Samuel Jacobsen
	2014-05-04	2014-05-09	WI	11 E Rancho Madera Rd	Yash Randall
	2014-04-25	2014-05-04	NC	Five Lakepointe Plaza, ...	Erick Kaleigh
	2014-04-25	2014-05-02	OH	3250 Spring Grove Ave	Kaitlin Hostlery
	2014-04-21	2014-04-27	CA	1033 N Sycamore Ave.	Dakota Baylee
	2014-03-23	2014-04-03	CA	3433 E Widget Ave	Samuel Jacobsen
	2014-03-22	2014-04-18	WI	11 E Rancho Madera Rd	Yash Randall

The result set should only contain 47 rows. Only a subset is shown in this preview.

Q3.) (25 points) Use the *ap database* for this question. Write a query that selects vendors and any invoice they have to replicate the result set below, matching all data and format aspects, including column headers. **This question includes 3 tables.**

	invoice_number	invoice_total	vendor_name	vendor_contact_name	vendor_phone	vendor_address
►	203339-13	17.50	Abbey Office Furnishings	Reynaldo Suscipe	(559) 555-8300	4150 W Shaw Ave
	NULL	NULL	American Booksellers Assoc	NULL	(800) 555-0037	828 S Broadway
	NULL	NULL	American Express	NULL	(800) 555-3344	Box 0001
	NULL	NULL	ASC Signs	NULL	NULL	1528 N Sierra Vista
	NULL	NULL	Ascom Hasler Mailing Systems	NULL	NULL	PO Box 895
	NULL	NULL	AT&T	NULL	NULL	PO Box 78225
	NULL	NULL	Azteck Label	NULL	(714) 555-9000	Accounts Payable
	NULL	NULL	Baker & Taylor Books	NULL	(704) 555-3500	Five Lakepointe Plaza, Ste 500
	509786	6940.25	Bertelsmann Industry Svcs. Inc	NULL	(805) 555-0584	28210 N Avenue Stanford
	NULL	NULL	BFI Industries	NULL	(559) 555-1551	PO Box 9369
	NULL	NULL	Bill Jones	NULL	NULL	Secretary Of State
	NULL	NULL	Bill Marvin Electric Inc	NULL	(559) 555-5106	4583 E Home
	NULL	NULL	Blanchard & Johnson Associates	Bruce Onandonga	(214) 555-3647	27371 Valderas
	547481328	224.00	Blue Cross	NULL	(800) 555-0912	PO Box 9061
	547480102	224.00	Blue Cross	NULL	(800) 555-0912	PO Box 9061
	547479217	116.00	Blue Cross	NULL	(800) 555-0912	PO Box 9061
	NULL	NULL	Blue Shield of California	NULL	(415) 555-5103	PO Box 7021
	NULL	NULL	Boucher Communications Inc	NULL	(215) 555-8000	1300 Virginia Dr. Ste 400
	587056	2184.50	Cahners Publishing Company	NULL	(301) 555-2162	Citibank Lock Box 4026
	NULL	NULL	Cal State Termite	NULL	(559) 555-1534	PO Box 956
	NULL	NULL	California Business Machines	Geraldine O'Sullivan	(559) 555-5570	Gallery Plz
	NULL	NULL	California Chamber Of Commerce	NULL	(916) 555-6670	3255 Ramos Cir
	NULL	NULL	California Data Marketing	NULL	(559) 555-3801	2818 E Hamilton

The result set contains 202 rows. Only a subset is shown in the preview. Pay special attention to NULL values.

Q4.) (25 points) Use the ap database for this question. Select all invoices due in the month of June and replicate the result set below, matching all data and format aspects, including column headers.

	vendor_name	vendor_city/state	invoice_number	payment_total	invoice_date	invoice_due_date
►	Compuserve	Columbus, OH	21-4923721	9.95	2014-05-13	2014-06-02
	Fresno County Tax Collector	Fresno, CA	P02-88D77S7	856.92	2014-05-03	2014-06-02
	Federal Express Corporation	Memphis, TN	4-321-2596	10.00	2014-05-05	2014-06-04
	Federal Express Corporation	Memphis, TN	963253242	104.00	2014-05-06	2014-06-05
	Federal Express Corporation	Memphis, TN	963253235	108.25	2014-05-11	2014-06-10
	Roadway Package System, Inc	Pasadena, CA	25022117	6.00	2014-05-01	2014-06-10
	Federal Express Corporation	Memphis, TN	963253246	129.00	2014-05-13	2014-06-12
	Federal Express Corporation	Memphis, TN	4-342-8069	10.00	2014-05-14	2014-06-13
	Federal Express Corporation	Memphis, TN	963253263	109.50	2014-05-16	2014-06-15
	Federal Express Corporation	Memphis, TN	1-200-5164	63.40	2014-05-20	2014-06-19
	IBM	San Francisco, CA	Q545443	1083.58	2014-06-09	2014-06-19
	Roadway Package System, Inc	Pasadena, CA	24863706	6.00	2014-05-10	2014-06-19
	Digital Dreamworks	Fresno, CA	P02-3772	7125.34	2014-05-21	2014-06-20
	Zylka Design	Fresno, CA	97/486	953.10	2014-05-21	2014-06-20
	Computerworld	San Francisco, CA	367447	2433.00	2014-06-11	2014-06-21
	Pacific Bell	Sacramento, CA	111-92R-10094	19.67	2014-06-01	2014-06-21
	Dristas Groom & McCormick	Fresno, CA	94007005	220.00	2014-05-23	2014-06-22
	Federal Express Corporation	Memphis, TN	963253232	127.75	2014-05-23	2014-06-22
	Ingram	Dallas, TX	31359783	1575.00	2014-06-03	2014-06-23
	Federal Express Corporation	Memphis, TN	963253260	36.00	2014-05-25	2014-06-24
	Pacific Bell	Sacramento, CA	111-92R-10097	16.33	2014-06-04	2014-06-24
	Zylka Design	Fresno, CA	97/486	953.10	2014-05-21	2014-06-20

The result set contains 29 rows.