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DATABASE DESIGN AND IMPLEMENTATION
GCCIS-ISTE-608

ISTE-608 Database Design and Implementation Homework #5 – Relational Algebra, Subqueries, and Joins

DUE:	
Name:	

Submit your script to the HW#5 Dropbox by the deadline.

Needed to complete: MySQL version 5

In this assignment you will utilize the JOBS database to explore the use of relational algebra, subqueries, and joins within MySQL. This exploration will help you to formulate strategies for query composition when a specified set of data needs to be found within a database.

Download and install the JOBS database

In MyCourses you will find a script called 'createJOBS.sql', download the file to your local hard drive. Run the 'createJOBS.sql' script within MySQL to create the JOBS database.

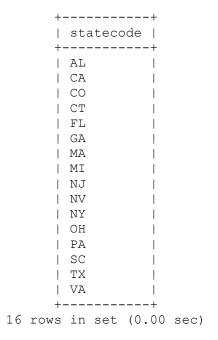
Familiarize yourself with the structure of the JOBS database by examining the 'createJOBS.sql' script as well as reviewing the information provided in appendix A.

Query the database

Create a script called 'yourlastname_HW5.sql' and add a comment at the top of the file with your name. For each question you will add a comment indicating the task number, followed by your SQL statement that addresses the task, given the specification provided. The results you should achieve are shown after each task (if your records appear in a different order but the content is the same, that is fine).



1. Write a SQL statement that will accomplish the equivalent of the following theoretical relational algebra statement: (EMPLOYER[statecode]) + (QUARTER[location]).





2. Write a SQL statement that will accomplish the equivalent of a theoretical relational algebra equijoin between employer and interview with a projection of companyname, division, statecode, and salaryoffered. (Hint: Make sure you are joining on the entire primary key/foreign key relationship.)

companyname	division	statecode	salaryoffered
Acme Information Source	Customer Support	OH	12.00
Braddock Information Assoc.	Payroll	MA	10.75
Ajax Software, Inc.	Production	CA	11.00
Ajax Software, Inc.	RandD	CA	11.50
Bay Software Inc.	Production	CA	11.75
Vegas Programming and Design	Development	NV	11.00
Mountainside Magic Software	Management	CO	11.50
Mountainside Magic Software	Customer Support	CO	10.75
Cameron Industries	Management	TX	13.25
Cameron Industries	Customer Support	TX	13.00
CCC Software	Production	NY	11.50
DC Security Applications	RandD	VA	11.50
Davis-Klein Software	RandD	NY	11.25
Flordia Software Designs	RandD	FL	11.75
Rochester Software Design	Development	NY	12.00
Focused Applications, Inc.	Production	SC	12.00
Georgia Software Design	RandD	GA	11.75
ApplDesign	RandD	AL	11.50
Long Island Apps, Inc.	Development	NY	12.25
Jersey Computer Services	Customer Support	NJ	12.50
Flordia Software Designs	Development	FL	12.75
Manhattan-Made Software	Customer Support	NY	12.50
Manhattan-Made Software	Payroll	NY	13.25
Nantucket Applications, Inc.	RandD	MA	13.00
PennState Programming, Inc.	Management	PA	13.00
Sandy Shore Software	Development	CT	12.75
Buffalo Software Assoc.	Payroll	NY	12.75
Virginia Software Industries	Production	VA	13.75

²⁸ rows in set (0.00 sec)





3. Write a SQL statement that accomplishes the equivalent of the following theoretical relational algebra statement: STATE-EMPLOYER.

+	++
statecode	description
AK	ALASKA
AR	ARKANSAS
AS	AMERICAN SAMOA
AZ	ARIZONA
DC	DISTRICT OF COLUMBIA
DE	DELAWARE
FM	FEDERATED STATES OF MICRONESIA
GU	GUAM
HI	HAWAII
IA	IOWA
ID	IDAHO
IL	ILLINOIS
IN	INDIANA
KS	KANSAS
KY	KENTUCKY
LA	LOUISIANA
MD	MARYLAND
ME	MAINE
MH	MARSHALL ISLANDS
MN	MINNESOTA
MO	MISSOURI
MP	NORTHERN MARIANA ISLANDS
MS	MISSISSIPPI
MT	MONTANA
NC	NORTH CAROLINA
ND	NORTH DAKOTA
NE	NEBRASKA
NH	NEW HAMPSHIRE
NM	NEW MEXICO
OK	OKLAHOMA
•	OREGON
PR	PUERTO RICO
PW	PALAU
RI	RHODE ISLAND
SD	SOUTH DAKOTA
TN	TENNESSEE
UT	UTAH
VI	VIRGIN ISLANDS
VT	VERMONT
WA	WASHINGTON
WI	WISCONSIN
WV	WEST VIRGINIA
WY	WYOMING
+	++

⁴³ rows in set (0.00 sec)



4. Write a SQL statement that performs the equivalent of the following theoretical relational algebra statement: INTERVIEW[companyname, minhrsoffered].

+	+	+
companyname	minhrs	offered
+	+	35 40 30 30 30 30 30
Flordia Software Des Rochester Software D Focused Applications Georgia Software Des ApplDesign Long Island Apps, Ir	Pesign s, Inc. sign	30 30 30 40 30 40
Jersey Computer Ser Manhattan-Made Soft Nantucket Application PennState Programmi Sandy Shore Softwar Buffalo Software Ass Virginia Software Ind	vices ware ns, Inc. ng, Inc. re soc.	35 40 40 40 35 35 40
24 rows in set	(0.00 sec)	



5. Write a SQL statement that accomplishes a theoretical relational algebra selection from the state table that includes all of the tuples/records that have 'a', 'e', 'i', 'o', or 'u' as the third letter of the description.

statecode	description
AK	ALASKA
AL	ALABAMA
AS	AMERICAN SAMOA
AZ	ARIZONA
FL	FLORIDA
GA	GEORGIA
GU	GUAM
ID	IDAHO
LA	LOUISIANA
ME	MAINE
OH	OHIO
OR	OREGON
PR	PUERTO RICO
RI	RHODE ISLAND
SC	SOUTH CAROLINA
SD	SOUTH DAKOTA
UT	UTAH
WY	WYOMING



6. Write a SQL statement that will show the quarter code, location, and state description for locations in the quarter table that also are found in state.

+-		+-		+-		+
į	qtrcode	į		•	description	İ
+-		+-		- + -		+
	19953		CA		CALIFORNIA	
1	19963		MA	1	MASSACHUSETTS	1
ı	19951	ı	NY	1	NEW YORK	1
İ	19961	Ĺ	NY	İ	NEW YORK	Ĺ
İ	19964	Ĺ	NY	İ	NEW YORK	Ĺ
+-		+-		- + -		+

⁵ rows in set (0.00 sec)



7. Write a SQL statement that will show the description for ALL states as well as the companynames of employers located each state.

ALASKA NULL ALABAMA ApplDesign ARKANSAS NULL ARKANSAS NULL ARIZONA NULL ARIZONA NULL ARIZONA NULL ARIZONA NULL ARIZONA NULL ARIZONA NULL ARIZONA NULL ARIZONA NULL ARIZONA NULL ARIZONA NULL ARIZONA NULL ARIZONA AMERICANIA Ajax Software, Inc. CALIFORNIA Ajax Software Inc. CALIFORNIA Bay Software Inc. CALIFORNIA Bay Software Inc. COLORADO Mountainside Magic Software COLORADO Mountainside Magic Software DISTRICT OF COLUMBIA NULL DELAWARE NULL Flordia Software Designs FLORIDA FLORIDA Flordia Software Designs FLORIDA FLORIDA Flordia Software Designs FLORIDA FLORIDA Georgia Software Designs FLORIDA Georgia Software Design MULL IOWA NULL IOWANASA NULL IOWANASA NULL IOWANASA NULL IOWANASA NULL IOWANASA NULL MASSACHUSETTS Braddock Information Assoc. MASSACHUSETTS Braddock Information Assoc. MASSACHUSETTS Nantucket Applications, Inc. MARYLAND NULL MARNHALL ISLANDS NULL MARNHALL ISLANDS NULL MARSHALL ISLANDS NULL MARSHALL ISLANDS NULL MARSHALL ISLANDS NULL MARSHALL ISLANDS NULL NULL NUNTANASA NULL NULL NULL NULL NORTH DAKOTA NULL NORTH CAROLINA NULL NULL NORTH CAROLINA NULL NULL NORTH DAKOTA NULL NULL NORTH DAKOTA NULL		
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CALIFORNIA	CALIFORNIA	Ajax Software, Inc.
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CONNECTICUT	COLORADO	
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FLORIDA	FLORIDA	Flordia Software Designs
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GUAM	GEORGIA	Georgia Software Design
TOWA	GUAM	-
IDAHO	HAWAII	NULL
ILLINOIS	IOWA	NULL
INDIANA	IDAHO	NULL
KANSAS	ILLINOIS	NULL
KANSAS	INDIANA	NULL
LOUISIANA	·	NULL
LOUISIANA	·	
MASSACHUSETTS	·	
MASSACHUSETTS	MASSACHUSETTS	Braddock Information Assoc.
MARYLAND	MASSACHUSETTS	Nantucket Applications, Inc.
MAINE		
MICHIGAN	·	
MICHIGAN	MARSHALL ISLANDS	NULL
MINNESOTA	·	•
MISSOURI	·	
NORTHERN MARIANA ISLANDS	·	•
MISSISSIPPI		
MONTANA	·	
NORTH CAROLINA	MONTANA	NULL
NORTH DAKOTA	·	
NEBRASKA	·	
NEW HAMPSHIRE NULL NEW JERSEY Jersey Computer Services NEW MEXICO NULL NEVADA Vegas Programming and Design NEW YORK Buffalo Software Assoc. NEW YORK CCC Software NEW YORK Davis-Klein Software NEW YORK Long Island Apps, Inc. NEW YORK Manhattan-Made Software NEW YORK Manhattan-Made Software NEW YORK Midtown Software Development NEW YORK Rochester Application Software	NEBRASKA	
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NEW MEXICO NULL NEVADA Vegas Programming and Design NEW YORK Buffalo Software Assoc. NEW YORK CCC Software NEW YORK Davis-Klein Software NEW YORK Long Island Apps, Inc. NEW YORK Manhattan-Made Software NEW YORK Manhattan-Made Software NEW YORK Midtown Software Development NEW YORK Rochester Application Software	·	•
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NEW YORK Rochester Application Software		
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		Rochester Software Design



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NEW YORK	Wootern New York Applications
	Western New York Applications
NEW YORK	Yankee Software
NEW YORK	Yankee Software
NEW YORK	Yankee Software
OHIO	Acme Information Source
OKLAHOMA	NULL
OREGON	NULL
PENNSYLVANIA	PennState Programming, Inc.
PENNSYLVANIA	PSWD, Inc.
PUERTO RICO	NULL
PALAU	NULL
RHODE ISLAND	NULL
SOUTH CAROLINA	Focused Applications, Inc.
SOUTH DAKOTA	NULL
TENNESSEE	NULL
TEXAS	Cameron Industries
TEXAS	Cameron Industries
UTAH	NULL
VIRGINIA	DC Security Applications
VIRGINIA	Virginia Software Industries
VIRGIN ISLANDS	NULL
VERMONT	NULL
WASHINGTON	NULL
WISCONSIN	NULL
WEST VIRGINIA	NULL
WYOMING	NULL
·	

Appendix A – Information on JOBS database structure and content

	RIBE quarter;			т.		.	.
Field	Туре	İ	Null	İ	Key	Default +	Extra
qtrcode location minsal	varchar(5)	 	NO YES NO				

4 rows in set (0.01 sec)

mysql> DESCRIBE employer;

+		+	+	+	+	+	+
	Field	Type 			Default		 _
"	companyname division address city statecode zipcode	varchar(30) varchar(30) varchar(30) varchar(20) char(2) int(5)	NO NO YES NO YES	PRI PRI MUL	NULL NULL NULL NULL		+
+		+	+	+	+	+	+

6 rows in set (0.01 sec)

mysql> DESCRIBE state;

Field		Туре				-		Default		
statecode description		char(2) varchar(30)	Ì	NO	Ċ	PRI			 -	

2 rows in set (0.01 sec)

mysql> DESCRIBE interview;

_			
	Field	Туре	Null Key Default Extra
	interviewID interviewdate companyname division qtrcode salaryoffered minhrsoffered listing jobdesc	varchar(30) varchar(30) varchar(5)	NO PRI 0



mysql> SELECT * FROM employer;

companyname	division	address	city 	statecode	zipcode
Acme Information Source	Customer Support	132 Commerical Way	Cleveland	OH	+ 44234
Ajax Software, Inc.	Production	2421 West Industrial Way	Berkeley	CA	94710
Ajax Software, Inc.	RandD	2421 West Industrial Way	Berkeley	CA	94710
ApplDesign	RandD	3 Mapleview Drive	Huntsville	AL	35803
Bay Software Inc.	Production	4223 Halster Way	Berkeley	CA	94710
Bay Software Inc.	RandD	4223 Halster Way	Berkeley	CA	94710
Braddock Information Assoc.	Payroll	1 Washington Complex	Boston	MA	2101
Buffalo Software Assoc.	Payroll	45511 Delaware Ave.	Buffalo	NY	14221
Cameron Industries	Customer Support	3112 West Helm Street	Kingwood	TX	77339
Cameron Industries	Management	3112 West Helm Street	Kingwood	TX	77339
CCC Software	Production	41 Golem Terrace	New York	NY	10012
Davis-Klein Software	RandD	8871 West Grange Drive	Cairo	NY	12413
DC Security Applications	RandD	1602 Jackson Ave.	Arlington	VA	22202
Flordia Software Designs	Development	45A Sturgeon Dr., Bldg. 5	Ft. Pierce	 FL	34951
Flordia Software Designs	RandD	45A Sturgeon Dr., Bldg. 5	Ft. Pierce	 FL	34951
Focused Applications, Inc.	Production	776 West Ninth St.	Myrtle Beach	l SC	I 29579
Georgia Software Design	RandD	6665 Peachtree Lane	Atlanta	GA	30328
Jersey Computer Services	Customer Support	44 WhiteStallion Pike	Lindenwold	I NJ	8021
Long Island Apps, Inc.	Development	67 Merrifield Ave.	Oceanside	NY	11572
Manhattan-Made Software	Customer Support	35 West 9th St.	New York	NY	10012
Manhattan-Made Software	Payroll	35 West 9th St.	New York	NY	10012
Michigan Application Design	_	5531 E. Lansing Ave.	Ypsilanti	MI	48197
Midtown Software Development	Customer Support	7554 West 9th St.	New York	NY	10003
Mountainside Magic Software	Customer Support	4 Rocky Way	Colorado Springs	l CO	80941
Mountainside Magic Software	Management	4 Rocky Way		l CO	80941
Nantucket Applications, Inc.	RandD	45521 Pilgrim Circle	Nantucket	l MA	I 2554
PennState Programming, Inc.	Management	3 Carnegie Circle	Pittsburgh	I PA	15108
PSWD, Inc.	Management	15 Carnegie Circle	Pittsburgh	I PA	15108
Rochester Application Software	Production	16 Broad Street	Rochester	NY	14621
Rochester Software Design	Development	16 Broad Street	Rochester	NY	14621
Sandy Shore Software	Development	5665 MassPike Circle	Waterford	I CT	I 6482
Vegas Programming and Design	Development	3 Desert Trail	Las Vegas	l NV	89117
Virginia Software Industries	Production	3 Confederate Ave.	Roanoke	l VA	24010
Western New York Applications	RandD	44 Rockman Blvd.	Rochester	l NY	14623
Yankee Software	Development	1 Braddock Circle	Kenmore	l NY	14223
Yankee Software	Management	1 Braddock Circle	Kenmore	NY	14223
Yankee Software	RandD	1 Braddock Circle	Kenmore	l NY	14223



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mysql> SELECT * FROM interview;

	interviewdate	·	division	-	-	minhrsoffered	_	jobdesc
1	1		Customer Support	'	'	'		Job Desc
2	1995-06-01	Braddock Information Assoc.	Payroll	19951	10.75	40	l n	Job Desc
3	'	Ajax Software, Inc.	Production	19951	11.00	40	ΙУ	Job Desc
4	1995-06-30	Ajax Software, Inc.	RandD	19951	11.50	40	ΙУ	Job Desc
5	1995-07-01	Bay Software Inc.	Production	19951	11.75	20	У	Job Desc
6	1995-08-01	$ {\sf Vegas} {\sf Programming} {\sf and} {\sf Design} $	Development	19951		40	n	Job Desc
7	1995-08-01	Mountainside Magic Software	Management	19951	11.50	20	У	Job Desc
8	1995-08-02	Mountainside Magic Software	Customer Support	19951	10.75	40	ΙУ	Job Desc
9		Cameron Industries	Management	19953	13.25	35	n	Job Desc
10	1995-12-02	Cameron Industries	Customer Support	19953	13.00	35	n	Job Desc
11	1995-12-04	CCC Software	Production	19953	11.50	40	n	Job Desc
12	1996-01-21	DC Security Applications	RandD	19953	11.50	30	n	Job Desc
13	1996-02-01	Davis-Klein Software	RandD	19953	11.25	20	l n	Job Desc
14	1996-02-02	Flordia Software Designs	RandD	19953	11.75	30	n	Job Desc
15	1996-07-01	Rochester Software Design	Development	19961	12.00	30	n	Job Desc
16	1996-07-01	Focused Applications, Inc.	Production	19961	12.00	30	У	Job Desc
17	1996-08-01	Georgia Software Design	RandD	19961	11.75	40	ΙУ	Job Desc
18	1996-08-08	ApplDesign	RandD	19961	11.50	30	У	Job Desc
19	1996-08-11	Long Island Apps, Inc.	Development	19961	12.25	40	У	Job Desc
20	1997-01-01	Jersey Computer Services	Customer Support	19963	12.50	35	n	Job Desc
21	1997-01-01	Flordia Software Designs	Development	19963	12.75	30	l n	Job Desc
22	1997-01-31	Manhattan-Made Software	Customer Support	19963	12.50	40	У	Job Desc
23	1997-02-01	Manhattan-Made Software	Payroll	19963	13.25	40	lу	Job Desc
24	1997-03-24	Nantucket Applications, Inc.	RandD	19964	13.00	40	У	Job Desc
25	1997-03-31	PennState Programming, Inc.	Management	19964	13.00	40	У	Job Desc
26	1997-04-20	Sandy Shore Software	Development	19964	12.75	35	n	Job Desc
27	1997-04-22	Buffalo Software Assoc.	Payroll	19964	12.75	35	lу	Job Desc
28	1997-05-01	Virginia Software Industries	Production	19964	13.75	40	n	Job Desc
	+	+	+					+



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mysql> SELECT	* FROM state;
statecode	description
++-	ALASKA
	ALABAMA
	ARKANSAS
	AMERICAN SAMOA
	ARIZONA
I CA I	:
i co i	COLORADO
CT	
I DC	•
I DE I	
FL	FLORIDA
FM	FEDERATED STATES OF MICRONESIA
GA	GEORGIA
GU	GUAM
HI	HAWAII
IA	IOWA
ID	IDAHO
IL	ILLINOIS
IN	INDIANA
KS	KANSAS
KY	KENTUCKY
LA	LOUISIANA
MA	MASSACHUSETTS
MD	MARYLAND
ME	MAINE
MH	MARSHALL ISLANDS
MI	MICHIGAN
MN	MINNESOTA
MO	MISSOURI
MP	NORTHERN MARIANA ISLANDS
MS	MISSISSIPPI
MT	MONTANA
NC	NORTH CAROLINA
ND	NORTH DAKOTA
NE	NEBRASKA
NH	NEW HAMPSHIRE
	NEW JERSEY
NM	NEW MEXICO
NV	NEVADA

NY		NEW YORK	
OH		OHIO	
OK		OKLAHOMA	
OR		OREGON	
PA		PENNSYLVANIA	
PR		PUERTO RICO	
PW		PALAU	
RI		RHODE ISLAND	
SC		SOUTH CAROLINA	
SD		SOUTH DAKOTA	
TN		TENNESSEE	
TX		TEXAS	
UT		UTAH	
VA		VIRGINIA	
VI		VIRGIN ISLANDS	
VT		VERMONT	
WA		WASHINGTON	
WI		WISCONSIN	
VW		WEST VIRGINIA	
WY		WYOMING	
+	+.	+	-

59 rows in set (0.01 sec)

mysql> SELECT * FROM quarter;

+	+	- 	++
qtrcode	location	minsal	minhrs
+	+	+	++
19951	NY	11.00	40
19953	CA	11.50	30
19961	NY	12.00	30
19963	MA	12.75	40
19964	NY	13.50	40
+	+	+	++