

Lab Session on Database Queries

ITEC-630, Spring 2006
Prof. Espinosa

Background: This database and queries are intended to help students practice writing SQL queries before working on the SQL query section of the homework. Please go to the database homework and follow the instructions in section 3 for how to download the SalarySurvey.mdb MS Access database file. Save the database in your WWW folder, open the database and click on the Forms button and select the QueryQuestions form (don't select the QuerySolutions form, unless you are trying to compare your queries to the correct solution).

Scenario: a compensation consulting firm is undertaking a salary study in different professions, across different companies in different states. They have stored the results of their survey in a database composed of 3 tables, presented in the next page, and have asked you to analyze the data. Please prepare the following queries.

There are 4 types of queries you need to work on:

(S) Simple Queries Involving 1 Table and No Aggregate Functions

(A) Simple Queries Involving 1 Table and Aggregate Functions

(AG) Queries Involving 1 Table and Aggregates with Grouping

(C) Complex Queries Involving Joining 2 Tables

A printout of the data contained in the database is provided below to facilitate visual inspection of your queries.

Employees				
EmployeeID	EmployeeName	CompanyID	DeptID	Salary
alberto	Espinosa, Alberto	CIT	PROD	180000
amigo1	Booch, Grady	HEI	MKT	300000
amigo2	Rambaugh, James	MSF	FIN	320000
amigo3	Jacobson, Ivar	DEL	FIN	215000
analia	Piccollo, Analia	CIT	HR	310000
arati	Trivedi, Arati	CIT	PROD	180000
bill	Delone, William	DEL	STR	270000
carlos	Santana, Carlos	CIT	ACCT	200000
cecilia	Lobo, Cecilia	IBM	HR	198000
cfo	Taylor, John	P&G	PROD	265000
cindy	Pickering, Cynthia	DEL	PROD	200000
clapton	Clapton, Eric	IBM	ACCT	240000
ctu	Bauer, Jack	HEI	ACCT	300000
dick	Durand, Richard	P&G	MKT	210000
ed	Wasil, Ed	P&G	ACCT	190000
eric	Cross, Eric	P&G	FIN	210000
erran	Carmel, Erran	INT	MKT	400000
floyd	Floyd, Pink	IBM	MKT	260000
frank	Armour, Frank	INT	STR	200000
gretchen	Anderson, Gretchen	INT	MKT	190000
james	Peterson, Jonathan	IBM	FIN	180000
javaid	Alim, Javaid	INT	MKT	190000
jill	Klein, Jill	HEI	HR	190000
lindsay	Botticello, Linday	IBM	ACCT	240000
lucille	King, B.B.	DEL	PROD	200000
marisa	Kertis, Marisa	MSF	PROD	230000
mark	Nardi-dei, Mark	DEL	FIN	225000
mydoe	Who, Ben	MSF	FIN	150000
nate	Snelson, Nathan	P&G	FIN	185000
nathan	Houser, Nathan	DEL	STR	270000
nayef	Al-hezayen, Nayef	P&G	PROD	320000
pain	Kases, Yuse	DEL	FIN	215000
pete	Townshend, Pete	DEL	FIN	215000
rick	Gibson, Rick	P&G	ACCT	175000
ringo	Starkey, Richard	INT	STR	200000
vic	Selman, Vic	P&G	MKT	230000

Companies			
CompanyID	CompanyName	City	State
CIT	Citibank	New York	NY
DEL	Deloitte Consulting	Washington	DC
HEI	H. J. Heinz Company	Pittsburgh	PA
IBM	International Business Machines	Armonk	NY
INT	Intel Corporation	Folsom	CA
MSF	Microsoft Corporation	Redmont	WA
P&G	Procter & Gamble Company	San Francisco	CA

Departments		
DeptID	DeptName	Coordinator
ACCT	Accounting	clapton
FIN	Finance	doe
HR	Human Resources	jill
MKT	Marketing	floyd
PROD	Production	carlos
STR	Strategy & Planning	ringo