

1, “Find the names of all instructors.”

select name from instructor;

	name
<input type="checkbox"/> Edit Copy Delete	Lembr
<input type="checkbox"/> Edit Copy Delete	Bawa
<input type="checkbox"/> Edit Copy Delete	Yazdi
<input type="checkbox"/> Edit Copy Delete	Wieland
<input type="checkbox"/> Edit Copy Delete	D'Agostino
<input type="checkbox"/> Edit Copy Delete	Liley
<input type="checkbox"/> Edit Copy Delete	Kean
<input type="checkbox"/> Edit Copy Delete	Atanassov
<input type="checkbox"/> Edit Copy Delete	Moreira
<input type="checkbox"/> Edit Copy Delete	Gustafsson
<input type="checkbox"/> Edit Copy Delete	Bourrier
<input type="checkbox"/> Edit Copy Delete	Bondi
<input type="checkbox"/> Edit Copy Delete	Soisalon-Soininen
<input type="checkbox"/> Edit Copy Delete	Morris
<input type="checkbox"/> Edit Copy Delete	Arias
<input type="checkbox"/> Edit Copy Delete	Murata
<input type="checkbox"/> Edit Copy Delete	Tung
<input type="checkbox"/> Edit Copy Delete	Luo
<input type="checkbox"/> Edit Copy Delete	Vicentino
<input type="checkbox"/> Edit Copy Delete	Romero
<input type="checkbox"/> Edit Copy Delete	Lent
<input type="checkbox"/> Edit Copy Delete	Sarkar
<input type="checkbox"/> Edit Copy Delete	Shuming

2. “Find the department names of all instructors,”

select dept_name from instructor;

to avoid duplicacy we can use: select distinct dept_name from instructor;

	dept_name
<input type="checkbox"/> Edit Copy Delete	Accounting
<input type="checkbox"/> Edit Copy Delete	Accounting
<input type="checkbox"/> Edit Copy Delete	Accounting
<input type="checkbox"/> Edit Copy Delete	Accounting
<input type="checkbox"/> Edit Copy Delete	Astronomy
<input type="checkbox"/> Edit Copy Delete	Athletics
<input type="checkbox"/> Edit Copy Delete	Athletics
<input type="checkbox"/> Edit Copy Delete	Athletics
<input type="checkbox"/> Edit Copy Delete	Athletics
<input type="checkbox"/> Edit Copy Delete	Athletics
<input type="checkbox"/> Edit Copy Delete	Biology
<input type="checkbox"/> Edit Copy Delete	Biology
<input type="checkbox"/> Edit Copy Delete	Comp. Sci.
<input type="checkbox"/> Edit Copy Delete	Comp. Sci.
<input type="checkbox"/> Edit Copy Delete	Cybernetics
<input type="checkbox"/> Edit Copy Delete	Cybernetics
<input type="checkbox"/> Edit Copy Delete	Cybernetics
<input type="checkbox"/> Edit Copy Delete	Cybernetics
<input type="checkbox"/> Edit Copy Delete	Elec. Eng.
<input type="checkbox"/> Edit Copy Delete	Elec. Eng.
<input type="checkbox"/> Edit Copy Delete	Elec. Eng.
<input type="checkbox"/> Edit Copy Delete	Elec. Eng.
<input type="checkbox"/> Edit Copy Delete	English

	dept_name
<input type="checkbox"/> Edit Copy Delete	Accounting
<input type="checkbox"/> Edit Copy Delete	Astronomy
<input type="checkbox"/> Edit Copy Delete	Athletics
<input type="checkbox"/> Edit Copy Delete	Biology
<input type="checkbox"/> Edit Copy Delete	Comp. Sci.
<input type="checkbox"/> Edit Copy Delete	Cybernetics
<input type="checkbox"/> Edit Copy Delete	Elec. Eng.
<input type="checkbox"/> Edit Copy Delete	English
<input type="checkbox"/> Edit Copy Delete	Finance
<input type="checkbox"/> Edit Copy Delete	Geology
<input type="checkbox"/> Edit Copy Delete	Languages
<input type="checkbox"/> Edit Copy Delete	Marketing
<input type="checkbox"/> Edit Copy Delete	Mech. Eng.
<input type="checkbox"/> Edit Copy Delete	Physics
<input type="checkbox"/> Edit Copy Delete	Pol. Sci.
<input type="checkbox"/> Edit Copy Delete	Psychology
<input type="checkbox"/> Edit Copy Delete	Statistics

3. “Find the names of all instructors in the Computer Science department who have salary greater than \$70,000.”

select name from instructor where dept_name = 'Comp. Sci.' and salary > 70000;

	name
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	Bourrier
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	Bondi

4. “Retrieve the names of all instructors, along with their department names and department building name.”

select name, instructor.dept_name, building from instructor, department where instructor.dept_name= department.dept_name;

name	dept_name	building
Lembr	Accounting	Saucon
Moreira	Accounting	Saucon
Hau	Accounting	Saucon
Ullman	Accounting	Saucon
Romero	Astronomy	Taylor
Bawa	Athletics	Bronfman
Yazdi	Athletics	Bronfman
Murata	Athletics	Bronfman
Tung	Athletics	Bronfman
Jaekel	Athletics	Bronfman
Queiroz	Biology	Candlestick
Valtchev	Biology	Candlestick
Bourrier	Comp. Sci.	Lamberton
Bondi	Comp. Sci.	Lamberton
McKinnon	Cybernetics	Mercer
Pimenta	Cybernetics	Mercer
Bietzk	Cybernetics	Mercer
Dale	Cybernetics	Mercer
Gustafsson	Elec. Eng.	Main
Vicentino	Elec. Eng.	Main
Sullivan	Elec. Eng.	Main
Levine	Elec. Eng.	Main
Kean	English	Palmer
Luo	English	Palmer
Yin	English	Palmer

5. The Cartesian product of the instructor relation with the teaches relation

select name, course_id from instructor, teaches where instructor.ID= teaches.ID;

name	course_id
Lembr	200
Lembr	843
Bawa	457
Wieland	545
Wieland	581
Wieland	591
DAgostino	338
DAgostino	338
DAgostino	352
DAgostino	400
DAgostino	400
DAgostino	482
DAgostino	599
DAgostino	642
DAgostino	663
DAgostino	867
DAgostino	962
DAgostino	972
DAgostino	991
Liley	192
Kean	366
Kean	808
Atanassov	603
Atanassov	604
Gustafsson	169

6. Result of “For all instructors in the university who have taught some course, find their names and the course ID of all courses they taught.”

select name, course_id from instructor, teaches where instructor.ID= teaches.ID
and instructor.dept name = 'Comp. Sci.';

name	course_id
Bourrier	949
Bourrier	960
Bondi	274
Bondi	571
Bondi	747