

Database Design II and SQL Using Oracle DBS301SEE.09112.2191

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Review Test Submission: L5-Joins

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Course	Database Design II and SQL Using Oracle
Test	L5-Joins
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Results Displayed	All Answers, Submitted Answers, Correct Answers

Question 1

Needs Grading

Display the department name, city, street address and postal code for all departments sorted by city and department name.

Selected Answer:

```
SELECT d.department_name,l.city,l.street_address,l.city
FROM departments d LEFT JOIN locations l
ON d.location_id=l.location_id
ORDER BY l.city,d.department_name
```

DEPARTMENT_NAME	CITY	CITY
STREET_ADDRESS		
-----	-----	-----
Sales	Oxford	Magdalen Centre, The Oxford
Science Park Oxford		
Accounting	Seattle	2004 Charade Rd
Seattle		
Actuarial	Seattle	2004 Charade Rd
Seattle		
Administration	Seattle	2004 Charade Rd
Seattle		
Contracting	Seattle	2004 Charade Rd
Seattle		
Executive	Seattle	2004 Charade Rd
Seattle		
IT	Southlake	2014 Jabberwocky Rd
Southlake		
Marketing	Toronto	147 Spadina Ave
Toronto		
Shipping	south San Francisco	2011 Interiors
Blvd	south San Francisco	

9 rows selected.

Correct



Answer:

```
SELECT department_name, city, street_address, postal_code
FROM departments JOIN locations USING (location_id)
ORDER BY city, department_name;

DEPARTMENT_NAME          CITY
STREET_ADDRESS            POSTAL_CODE
-----
Sales                     Oxford          Magdalen Centre, The Oxford
Science Park OX9 9ZB
Accounting                 Seattle        2004 Charade
Rd                         98199
Administration            Seattle        2004 Charade
Rd                         98199
Contracting               Seattle        2004 Charade
Rd                         98199
Executive                 Seattle        2004 Charade
Rd                         98199
Shipping                  South San Francisco 2011 Interiors
Blvd                      99236
IT                         Southlake      2014 Jabberwocky
Rd                        26192
Marketing                 Toronto        147 Spadina
Ave                      M5V 2L7
```

8 rows selected

Question 2

Needs Grading

Display employee's Managers ID, managers Last Name and employee number and last name

Label the columns Manager, Mgr# ,Employee and Emp#, respectively. Sort by manager number


Selected Answer:

```
SELECT DISTINCT m.manager_id AS "Mgr#",m.last_name AS
"Manager",e.employee_id AS "Emp#",e.last_name AS "Employee"
FROM employees e INNER JOIN employees m
ON e.manager_id=m.employee_id
ORDER BY m.manager_id
```

Mgr# Manager	Emp# Employee
100 De Haan	103 Hunold
100 Hartstein	202 Fay
100 Kochhar	200 Whalen
100 Kochhar	205 Higgins
100 Mourgos	141 Rajs
100 Mourgos	142 Davies
100 Mourgos	143 Matos
100 Mourgos	144 Vargas
100 Zlotkey	1 Flertjan
100 Zlotkey	3 Grovlin
100 Zlotkey	4 Smertal
Mgr# Manager	Emp# Employee
100 Zlotkey	5 Mustaine
100 Zlotkey	6 Harvey
100 Zlotkey	7 LeDuc
100 Zlotkey	8 Bergsteige
100 Zlotkey	9 Gruber
100 Zlotkey	11 Sanchez
100 Zlotkey	12 Chancevente
100 Zlotkey	14 Torson
100 Zlotkey	15 Cornel
100 Zlotkey	16 Gibbons
100 Zlotkey	17 Pallomine

Mgr# Manager	Emp# Employee
100 Zlotkey	18 Jacobs
100 Zlotkey	19 Strandherst
100 Zlotkey	21 Brigade
100 Zlotkey	22 Litrand
100 Zlotkey	23 Armarillo
100 Zlotkey	24 Mot
100 Zlotkey	25 Turcotte
100 Zlotkey	26 LeBlanc
100 Zlotkey	27 Rodriguez
100 Zlotkey	28 Young
100 Zlotkey	29 Loo Nam
Mgr# Manager	Emp# Employee
100 Zlotkey	30 Chan
100 Zlotkey	33 Wandiko
100 Zlotkey	34 Gregson
100 Zlotkey	35 Krain
100 Zlotkey	36 Termede
100 Zlotkey	39 Testorok
100 Zlotkey	40 Whiteduck
100 Zlotkey	41 Montoya
100 Zlotkey	174 Abel
100 Zlotkey	176 O'Brian
100 Zlotkey	178 Grants
Mgr# Manager	Emp# Employee
100 Zlotkey	180 de Man
101 Higgins	206 Gietz
102 Hunold	104 Ernst
102 Hunold	107 Lorentz
King	101 Kochhar
King	102 De Haan
King	124 Mourgos
King	149 Zlotkey
King	201 Hartstein

53 rows selected.

Correct 
 Answer:

Will look like this , just different order of columns and more results

```
SELECT e.last_name as "Employee", e.employee_id "Emp#", m.last_name as "Manager",  
e.manager_id as "Mgr#"
```

```
FROM employees e LEFT OUTER JOIN employees m ON (e.manager_id = m.employee_id);
```

Employee	Emp#	Manager	Mgr#
Zlotkey	149	King	100
Kochhar	101	King	100
De Haan	102	King	100
Mourgos	124	King	100
Hartstein	201	King	100
Whalen	200	Kochhar	101
Higgins	205	Kochhar	101
Hunold	103	De Haan	102
Ernst	104	Hunold	103
Lorentz	107	Hunold	103
Rajs	141	Mourgos	124
Davies	142	Mourgos	124
Vargas	144	Mourgos	124
Matos	143	Mourgos	124
Abel	174	Zlotkey	149
Taylor	176	Zlotkey	149
Grant	178	Zlotkey	149
Fay	202	Hartstein	201
Gietz	206	Higgins	205
King	100		

20 rows selected

NOTE: left join required to include employees without value for manager_id since manager_id in employees table permits nulls. But this is lab 5a that is about simpler joins.

Question 3

Needs Grading

Display full name of the employees using format of Last, First, their hire date and salary together with their department name and city, but only for departments which names start with an A or the department name starts with S and end with g. Sort by department name and employee name. Show me one row and tell me how many rows were in the output

Sample output: Termede, Ingrid

01-DEC-14 11000 Sales

Selected
Answer:

```

SELECT e.last_name||','||e.first_name AS "fullname", e.hire_date , e.salary,
d.department_name,l.city
FROM employees e
INNER JOIN departments d ON e.department_id=d.department_id
INNER JOIN locations l ON d.location_id=l.location_id
WHERE d.department_name LIKE 'A%' or ( d.department_name LIKE 'S%' and
d.department_name LIKE '%g' )
ORDER BY d.department_name, e.last_name||','||e.first_name;

```

fullname DEPARTMENT_NAME	HIRE_DATE CITY	SALARY

Gietz,William	07-JUN-94	8300 Accounting
Seattle		
Higgins,Shelley	07-JUN-94	12000 Accounting
Seattle		
Flertjan,Bjorn	11-JAN-11	17000 Administration
Seattle		
Whalen,Jennifer	17-SEP-87	4400 Administration
Seattle		
Davies,Curtis	29-JAN-97	3100 Shipping
south San Francisco		
Matos,Randall	15-MAR-98	2600 Shipping
south San Francisco		
Mourgos,Kevin	16-NOV-99	5800 Shipping
south San Francisco		
Rajs,Trenna	17-OCT-95	3500 Shipping
south San Francisco		
Vargas,Peter	09-JUL-98	2500 Shipping
south San Francisco		

9 rows selected.

Correct
Answer:

👍

name	HIRE_DATE
SALARY DEPARTMENT_NAME	
CITY	

Gietz, William	07-JUN-94
8300 Accounting	
Seattle	
Higgins, Shelley	07-JUN-94
12000 Accounting	
Seattle	
Whalen, Jennifer	17-SEP-87
4400 Administration	Seattle

3 rows

Question 4

Needs Grading

Display the employee id and first name of every employee along with the first name and id of the employee's manager (if applicable).

order by employee d


only show rows with employee id greater than 30 and less than 110

Selected
Answer:

```

SELECT e.employee_id,e.first_name,e.manager_id,m.first_name as "manager_id"
FROM employees e LEFT JOIN employees m
  ON e.manager_id = m.employee_id
WHERE e.employee_id>'30'and e.employee_id<'110'
ORDER BY e.employee_id;
EMPLOYEE_ID FIRST_NAME      MANAGER_ID manager_id
-----
33 Torey                    149 Eleni
34 Kaley                    149 Eleni
35 Hari                     149 Eleni
36 Ingrid                   149 Eleni
39 Lisa                     149 Eleni
40 Marthe                   149 Eleni
41 Inigo                    149 Eleni
100 Steven
101 Neena                   100 Steven
102 Lex                     100 Steven
103 Alexander               102 Lex
EMPLOYEE_ID FIRST_NAME      MANAGER_ID manager_id
-----
104 Bruce                   103 Alexander
107 Diana                   103 Alexander
13 rows selected.

```

Correct 

Answer:

```

SELECT e.employee_id, e.first_name, m.first_name as Manager_Last_Name, m.employee_id as Manager_ID
FROM employees e LEFT JOIN employees m
  ON (e.manager_id = m.employee_id)
WHERE e.employee_id < 110
and e.employee_id > 30
order by e.employee_id;

```

```

EMPLOYEE_ID FIRST_NAME      MANAGER_LAST_NAME  MANAGER_ID
-----
33 Torey      Eleni              149
34 Kaley      Eleni              149
35 Hari       Eleni              149
36 Ingrid     Eleni              149
39 Lisa       Eleni              149
40 Marthe     Eleni              149
41 Inigo      Eleni              149
100 Steven
101 Neena      Steven             100
102 Lex        Steven             100
103 Alexander  Lex                102
104 Bruce      Alexander           103
107 Diana      Alexander           103
13 rows selected

```

Question 5

Needs Grading

Display the employee id, last name, job, department name, and job grade for all employees. Should get 54 rows.

Selected Answer:

```

SELECT e.employee_id,e.last_name,e.job_id,d.department_name,j.grade
FROM employees e LEFT JOIN departments d
  ON e.department_id=d.department_id
LEFT JOIN JOB_GRADES j
  ON e.salary
  BETWEEN j.lowest_sal AND j.highest_sal
EMPLOYEE_ID LAST_NAME      JOB_ID
DEPARTMENT_NAME      G
-----

```

```

100 King      AD_PRES  Executive  E
1 Flertjan    AC_REP   Administration  E
101 Kochhar    AD_VP    Executive  E

```

102 De Haan	AD_VP	Executive	E
201 Hartstein	MK_MAN	Marketing	D
205 Higgins	AC_MGR	Accounting	D
12 Chancevante	SA_REP	Sales	D
174 Abel	SA_REP	Sales	D
4 Smertal	SA_REP	Sales	D
29 Loo Nam	SA_REP	Sales	D
11 Sanchez	SA_REP	Sales	D
EMPLOYEE_ID	LAST_NAME	JOB_ID	
DEPARTMENT_NAME	G		


14 Torson	SA_REP	Sales	D
15 Cornel	SA_REP	Sales	D
16 Gibbons	SA_REP	Sales	D
17 Pallomine	SA_REP	Sales	D
18 Jacobs	SA_REP	Sales	D
21 Brigade	SA_REP	Sales	D
23 Armarillo	SA_REP	Sales	D
24 Mot	SA_REP	Sales	D
3 Grovlin	SA_REP	Sales	D
41 Montoya	SA_REP	Sales	D
40 Whiteduck	SA_REP	Sales	D
EMPLOYEE_ID	LAST_NAME	JOB_ID	
DEPARTMENT_NAME	G		

39 Testorok	SA_REP	Sales	D
36 Termede	SA_REP	Sales	D
35 Krain	SA_REP	Sales	D
34 Gregson	SA_REP	Sales	D
33 Wandiko	SA_REP	Sales	D
30 Chan	SA_REP	Sales	D
5 Mustaine	SA_REP	Sales	D
27 Rodriguez	SA_REP	Sales	D
26 LeBlanc	SA_REP	Sales	D
25 Turcotte	SA_REP	Sales	D
149 Zlotkey	SA_MAN	Sales	D
EMPLOYEE_ID	LAST_NAME	JOB_ID	
DEPARTMENT_NAME	G		

28 Young	SA_REP	Sales	D
22 Litrand	SA_REP	Sales	D
6 Harvey	SA_REP	Sales	D
9 Gruber	SA_REP	Sales	C
19 Strandherst	SA_REP	Sales	C
103 Hunold	IT_PROG	IT	C
176 O'Brian	SA_REP	Sales	C
206 Gietz	AC_ACCOUNT	Accounting	C
8 Bergsteige	SA_REP	Sales	C
7 LeDuc	SA_REP	Sales	C
180 de Man	SA_REP		C
EMPLOYEE_ID	LAST_NAME	JOB_ID	
DEPARTMENT_NAME	G		

178 Grants	SA_REP		C
104 Ernst	IT_PROG	IT	C
202 Fay	MK_REP	Marketing	C
124 Mourgos	ST_MAN	Shipping	B
200 Whalen	AD_ASST	Administration	B
107 Lorentz	IT_PROG	IT	B
141 Rajs	ST_CLERK	Shipping	B
142 Davies	ST_CLERK	Shipping	B
143 Matos	ST_CLERK	Shipping	A
144 Vargas	ST_CLERK	Shipping	A

54 rows selected.

Correct
Answer: 

```
SELECT employee_id, last_name, job_id, department_name, grade
FROM employees
LEFT JOIN departments USING (department_id)
LEFT JOIN job_grades ON (salary BETWEEN lowest_sal AND highest_sal);
NOTE: left joins required to include employees without departments or without salary since nulls
are permitted for both these columns in employees table
```

Alternate Solution:

```
SELECT employee_id, last_name, job_id, department_name, grade
FROM departments
RIGHT JOIN employees USING (department_id)
LEFT JOIN job_grades ON (salary BETWEEN lowest_sal AND highest_sal)
```

Question 6

Needs Grading

Display the location id, address, city, state and country for each location id.

Selected
Answer:


```

SELECT
LOCATION_ID,STREET_ADDRESS,CITY,STATE_PROVINCE,COUNTRY_NAME
FROM LOCATIONS A
JOIN COUNTRIES B
ON A.COUNTRY_ID = B.COUNTRY_ID
LOCATION_ID STREET_ADDRESS          CITY
STATE_PROVINCE          COUNTRY_NAME

```

```

-----
1000 1297 Via Cola di Rie          Roma
Italy
1100 93091 Calle della Testa
Venice          Italy
1200 2017 Shinjuku-ku          Tokyo          Tokyo
Prefecture      Japan
1300 9450 Kamiya-cho
Hiroshima          Japan
1400 2014 Jabberwocky Rd          Southlake
Texas          United States of America
1500 2011 Interiors Blvd          south San Francisco
California      United States of America
1600 2007 Zagora St          South Brunswick          New
Jersey          United States of America
1700 2004 Charade Rd          Seattle
Washington      United States of America
1800 147 Spadina Ave          Toronto
Ontario          Canada
1900 6092 Boxwood St          Whitehorse
Yukon          Canada
2000 40-5-12 Laogianggen
Beijing          China
LOCATION_ID STREET_ADDRESS          CITY
STATE_PROVINCE          COUNTRY_NAME

```

```

-----
2100 1298 Vileparle (E)          Bombay
Maharashtra      India
2200 12-98 Victoria Street          Sydney          New South
Wales          Australia
2300 198 Clementi North
Singapore          Singapore
2400 8204 Arthur St          London
United Kingdom
2500 Magdalen Centre, The Oxford Science Park Oxford
Oxford          United Kingdom
2600 9702 Chester Road          Stretford
Manchester      United Kingdom
2700 Schwanthalerstr. 7031          Munich
Bavaria          Germany
2800 Rua Frei Caneca 1360          Sao Paulo          Sao
Paulo          Brazil
2900 20 Rue des Corps-Saints          Geneva
Geneve          Switzerland
3000 Murtenstrasse 921          Bern
BE          Switzerland
3100 Pieter Breughelstraat 837          Utrecht
Utrecht          Netherlands
LOCATION_ID STREET_ADDRESS          CITY
STATE_PROVINCE          COUNTRY_NAME

```

```

-----
3200 Mariano Escobedo 9991          Mexico City          Distrito
Federal,      Mexico

```

23 rows selected.

Correct
Answer:



```
SELECT location_id, street_address, city, state_province, country_name
FROM locations
LEFT JOIN countries using (country_id);
NOTE: left join required to include locations without value for country_id since country_id in
locations table permits nulls

ALTERNATE solution:
SELECT location_id, street_address, city, state_province, country_name
FROM countries
RIGHT JOIN locations using (country_id);
```

Question 7

Needs Grading

Display the full name of the manager of each department in states/provinces of Ontario, California, Bavaria and Washington along with the department name, city, postal code and province name. Sort the output by city and then by department name.

Selected
Answer:

```

SELECT e.first_name||e.last_name AS
"Fullname",d.department_name,l.city,l.postal_code,l.state_province
FROM employees e LEFT JOIN employees m
  ON e.employee_id= m.manager_id
  INNER JOIN departments d
  ON e.department_id=d.department_id
  INNER JOIN locations l
  ON d.location_id=l.location_id
WHERE l.state_province in ('Ontario','California','Bavaria','Washington')
ORDER BY l.city,d.department_name;

```

Fullname	DEPARTMENT_NAME	
CITY	POSTAL_CODE	STATE_PROVINCE

ShelleyHiggins	Accounting	Seattle
98199 Washington		
WilliamGietz	Accounting	Seattle
98199 Washington		
JenniferWhalen	Administration	Seattle
98199 Washington		
BjornFlertjan	Administration	Seattle
98199 Washington		
NeenaKochhar	Executive	Seattle
98199 Washington		
NeenaKochhar	Executive	Seattle
98199 Washington		
LexDe Haan	Executive	Seattle
98199 Washington		
StevenKing	Executive	Seattle
98199 Washington		
StevenKing	Executive	Seattle
98199 Washington		
StevenKing	Executive	Seattle
98199 Washington		
StevenKing	Executive	Seattle
98199 Washington		
Fullname	DEPARTMENT_NAME	
CITY	POSTAL_CODE	STATE_PROVINCE

StevenKing	Executive	Seattle
98199 Washington		
PatFay	Marketing	Toronto
M5V 2L7 Ontario		
MichaelHartstein	Marketing	Toronto
M5V 2L7 Ontario		
RandallMatos	Shipping	south San
Francisco 99236	California	
PeterVargas	Shipping	south San
Francisco 99236	California	
KevinMourgos	Shipping	south San
Francisco 99236	California	
KevinMourgos	Shipping	south San
Francisco 99236	California	
KevinMourgos	Shipping	south San
Francisco 99236	California	
CurtisDavies	Shipping	south San
Francisco 99236	California	
TrennaRajs	Shipping	south San
Francisco 99236	California	
KevinMourgos	Shipping	south San
Francisco 99236	California	

22 rows selected.

Correct
Answer:



```

SELECT distinct m.last_name as "Manager",
department_name, city, postal_code, state_province
FROM employees E
JOIN employees M
      On (e.manager_id = m.employee_id)
JOIN departments D
      on (m.manager_id = d.manager_id)
JOIN locations L
      USING (location_id)
WHERE LOWER(state_province) IN ('ontario', 'bavaria', 'california', 'washington')
ORDER BY city, department_name;
Manager      DEPARTMENT_NAME      CITY
POSTAL_CODE  STATE_PROVINCE
-----

```

```

De Haan      Executive      Seattle
98199        Washington
Hartstein    Executive      Seattle
98199        Washington
Kochhar      Executive      Seattle
98199        Washington
Mourgos      Executive      Seattle
98199        Washington
Zlotkey      Executive      Seattle
98199        Washington

```

Question 8

Needs Grading

Display all employees and all cities.

Selected Answer: `SELECT e.employee_id,e.first_name||e.last_name AS "Fullname", l.city
FROM employees e FULL JOIN departments d
ON e.department_id=d.department_id
FULL JOIN locations l
ON d.location_id=l.location_id`

EMPLOYEE_ID Fullname	CITY
100 StevenKing	Seattle
101 NeenaKochhar	Seattle
102 LexDe Haan	Seattle
103 AlexanderHunold	Southlake
104 BruceErnst	Southlake
107 DianaLorentz	Southlake
124 KevinMourgos	south San Francisco
141 TennaRajs	south San Francisco
142 CurtisDavies	south San Francisco
143 RandallMatos	south San Francisco
144 PeterVargas	south San Francisco
EMPLOYEE_ID Fullname	CITY
149 EleniZlotkey	Oxford
174 EllenAbel	Oxford
176 JonathonO'Brian	Oxford
178 KimberlyGrants	
180 Spencede Man	
200 JenniferWhalen	Seattle
201 MichaelHartstein	Toronto
202 PatFay	Toronto
205 ShelleyHiggins	Seattle
206 WilliamGietz	Seattle
1 BjornFlertjan	Seattle
EMPLOYEE_ID Fullname	CITY
3 GusGrovin	Oxford
4 BillSmertal	Oxford
5 DaveMustaine	Oxford
6 HenryHarvey	Oxford

6 HenryHartley	Oxford	
7 HenriLeDuc	Oxford	
8 ConradBergsteige	Oxford	
9 KurtGruber	Oxford	
11 MiguelSanchez	Oxford	
12 DanChancevente	Oxford	
14 GregTorson	Oxford	
15 ChrisCornel	Oxford	
EMPLOYEE_ID Fullname	CITY	

16 BilGibbons	Oxford	
17 RussPallomine	Oxford	
18 LynJacobs	Oxford	
19 SallyStrandherst	Oxford	
21 ThomasBrigade	Oxford	
22 JaneLitrand	Oxford	
23 TonyArmarillo	Oxford	
24 MattMot	Oxford	
25 GillesTurcotte	Oxford	
26 FrancoiseLeBlanc	Oxford	
27 CarlosRodriguez	Oxford	
EMPLOYEE_ID Fullname	CITY	

28 MalcomYoung	Oxford	
29 CharlesLoo Nam	Oxford	
30 LeeChan	Oxford	
33 ToreyWandiko	Oxford	
34 KaleyGregson	Oxford	
35 HariKrain	Oxford	
36 IngridTermede	Oxford	
39 LisaTestorok	Oxford	
40 MartheWhiteduck	Oxford	
41 InigoMontoya	Oxford	
	Seattle	
EMPLOYEE_ID Fullname	CITY	

	Seattle	
	Beijing	
	Bern	
	London	
	Tokyo	
	Sydney	
	Utrecht	
	South Brunswick	
	Bombay	
	Geneva	
	Sao Paulo	
EMPLOYEE_ID Fullname	CITY	

	Venice	
	Whitehorse	
	Singapore	
	Hiroshima	
	Stretford	
	Roma	
	Mexico City	
	Munich	

74 rows selected.

Correct



Answer:

```
SELECT city, employee_id, last_name, first_name
FROM employees
FULL JOIN departments using (department_id)
FULL JOIN locations using (location_id);
```

NOTE: full joins (left and right) required since some employees do not have location_ids and some locations may not have country_id and some countries do not have locations and some locations do not have employees

Question 9

Needs Grading

Display the name of each city and the names of employees assigned to that city (if applicable).

Selected Answer:

```
SELECT l.city,e.first_name||' '||e.last_name AS"fullname"
FROM locations l LEFT JOIN departments d
ON l.location_id= d.location_id LEFT JOIN employees e
ON d.department_id= e. department_id
CITY                fullname
```

```
-----
Oxford                Ellen Abel
Oxford                Tony Armarillo
Oxford                Conrad Bergsteige
Oxford                Thomas Brigade
Oxford                Lee Chan
Oxford                Dan Chancevente
Oxford                Chris Cornel
south San Francisco   Curtis Davies
Seattle               Lex De Haan
Southlake             Bruce Ernst
Toronto               Pat Fay
CITY                  fullname
```

```
-----
Seattle               Bjorn Flertjan
Oxford                Bil Gibbons
Seattle               William Gietz
Oxford                Kaley Gregson
Oxford                Gus Grovlin
Oxford                Kurt Gruber
Toronto               Michael Hartstein
Oxford                Henry Harvey
Seattle               Shelley Higgins
Southlake             Alexander Hunold
Oxford                Lyn Jacobs
CITY                  fullname
```

```
-----
Seattle               Steven King
Seattle               Neena Kochhar
Oxford                Hari Krain
Oxford                Francoise LeBlanc
Oxford                Henri LeDuc
Oxford                Jane Litrand
Oxford                Charles Loo Nam
Southlake             Diana Lorentz
south San Francisco   Randall Matos
Oxford                Inigo Montoya
Oxford                Matt Mot
CITY                  fullname
```

```
-----
south San Francisco   Kevin Mourgos
Oxford                Dave Mustaine
Oxford                Jonathon O'Brian
Oxford                Russ Pallomine
south San Francisco   Trenna Rajs
Oxford                Carlos Rodriguez
Oxford                Miguel Sanchez
Oxford                Bill Smertal
Oxford                Sally Strandherst
Oxford                Ingrid Termede
Oxford                Lisa Testorok
CITY                  fullname
```

```
-----
Oxford                Greg Torson
Oxford                Gilles Turcotte
```

south San Francisco	Peter Vargas
Oxford	Torey Wandiko
Seattle	Jennifer Whalen
Oxford	Marthe Whiteduck
Oxford	Malcom Young
Oxford	Eleni Zlotkey
Munich	
Mexico City	
Roma	
CITY	fullname

Stretford	
Hiroshima	
Singapore	
Whitehorse	
Venice	
Sao Paulo	
Geneva	
Bombay	
South Brunswick	
Utrecht	
Sydney	
CITY	fullname

Tokyo
London
Bern
Beijing
Seattle
Seattle

72 rows selected.

Correct Answer:
 SELECT city, last_name, first_name
 FROM locations
 LEFT JOIN departments USING (location_id)
 LEFT JOIN employees USING (department_id);

Question 10

Needs Grading

Display the employee id, last name of every employee and the name of the department and city that the employee is assigned to (if applicable).

Selected Answer:
 SELECT employee_id, last_name, department_name, city
 FROM employees
 LEFT JOIN departments using (department_id)
 LEFT JOIN locations using (location_id);
 EMPLOYEE_ID LAST_NAME DEPARTMENT_NAME
 CITY

103 Hunold	IT	Southlake
104 Ernst	IT	Southlake
107 Lorentz	IT	Southlake
124 Mourgos	Shipping	south San
Francisco		
141 Rajs	Shipping	south San Francisco
142 Davies	Shipping	south San
Francisco		
143 Matos	Shipping	south San
Francisco		
144 Vargas	Shipping	south San
Francisco		
205 Higgins	Accounting	Seattle
206 Gietz	Accounting	Seattle

100 King	Executive	Seattle
EMPLOYEE_ID LAST_NAME	DEPARTMENT_NAME	
CITY		
<hr/>		
101 Kochhar	Executive	Seattle
102 De Haan	Executive	Seattle
200 Whalen	Administration	Seattle
1 Flertjan	Administration	Seattle
201 Hartstein	Marketing	Toronto
202 Fay	Marketing	Toronto
149 Zlotkey	Sales	Oxford
174 Abel	Sales	Oxford
176 O'Brian	Sales	Oxford
3 Grovlin	Sales	Oxford
4 Smertal	Sales	Oxford
EMPLOYEE_ID LAST_NAME	DEPARTMENT_NAME	
CITY		
<hr/>		
5 Mustaine	Sales	Oxford
6 Harvey	Sales	Oxford
7 LeDuc	Sales	Oxford
8 Bergsteige	Sales	Oxford
9 Gruber	Sales	Oxford
11 Sanchez	Sales	Oxford
12 Chancevente	Sales	Oxford
14 Torson	Sales	Oxford
15 Cornel	Sales	Oxford
16 Gibbons	Sales	Oxford
17 Pallomine	Sales	Oxford
EMPLOYEE_ID LAST_NAME	DEPARTMENT_NAME	
CITY		
<hr/>		
18 Jacobs	Sales	Oxford
19 Strandherst	Sales	Oxford
21 Brigade	Sales	Oxford
22 Litrand	Sales	Oxford
23 Armarillo	Sales	Oxford
24 Mot	Sales	Oxford
25 Turcotte	Sales	Oxford
26 LeBlanc	Sales	Oxford
27 Rodriguez	Sales	Oxford
28 Young	Sales	Oxford
29 Loo Nam	Sales	Oxford
EMPLOYEE_ID LAST_NAME	DEPARTMENT_NAME	
CITY		
<hr/>		
30 Chan	Sales	Oxford
33 Wandiko	Sales	Oxford
34 Gregson	Sales	Oxford
35 Krain	Sales	Oxford
36 Termede	Sales	Oxford
39 Testorok	Sales	Oxford
40 Whiteduck	Sales	Oxford
41 Montoya	Sales	Oxford
178 Grants		
180 de Man		

54 rows selected.

Correct
Answer:

```
SELECT employee_id, last_name, department_name, city
FROM employees
LEFT JOIN departments using (department_id)
LEFT JOIN locations using (location_id);
```



Saturday, February 16, 2019 3:11:02 AM EST