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Module 4

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1.

```
SQL> SELECT c.country_name, l.city, l.state_province, l.country_id
  2   FROM countries c, locations l
  3   ORDER BY c.country_name ASC, l.city ASC;
```

COUNTRY_NAME	CITY	STATE_PROVINCE	CO
Argentina	Beijing		CN
Argentina	Bern	BE	CH
Argentina	Bombay	Maharashtra	IN
Argentina	Geneva	Geneve	CH
Argentina	Hiroshima		JP
Argentina	London		UK
Argentina	Mexico City	Distrito Federal,	MX
Argentina	Munich	Bavaria	DE
Argentina	Oxford	Oxford	UK
Argentina	Roma		IT
Argentina	Sao Paulo	Sao Paulo	BR
Argentina	Seattle	Washington	US

COUNTRY_NAME	CITY	STATE_PROVINCE	CO
Zimbabwe	Roma		IT
Zimbabwe	Sao Paulo	Sao Paulo	BR
Zimbabwe	Seattle	Washington	US
Zimbabwe	Singapore		SG
Zimbabwe	South Brunswick	New Jersey	US
Zimbabwe	South San Francisco	California	US
Zimbabwe	Southlake	Texas	US
Zimbabwe	Stretford	Manchester	UK
Zimbabwe	Sydney	New South Wales	AU
Zimbabwe	Tokyo	Tokyo Prefecture	JP
Zimbabwe	Toronto	Ontario	CA
Zimbabwe	Utrecht	Utrecht	NL
Zimbabwe	Venice		IT
Zimbabwe	Whitehorse	Yukon	CA

575 rows selected.

2.

```
SQL> SELECT c.country_name, l.city, l.state_province, l.country_id
  2 FROM countries c INNER JOIN locations l ON c.country_id=l.country_id
  3 ORDER BY c.country_name ASC, l.city ASC;
```

COUNTRY_NAME	CITY	STATE_PROVINCE	CO
Australia	Sydney	New South Wales	AU
Brazil	Sao Paulo	Sao Paulo	BR
Canada	Toronto	Ontario	CA
Canada	Whitehorse	Yukon	CA
China	Beijing		CN
Germany	Munich	Bavaria	DE
India	Bombay	Maharashtra	IN
Italy	Roma		IT
Italy	Venice		IT
Japan	Hiroshima		JP
Japan	Tokyo	Tokyo Prefecture	JP
COUNTRY_NAME	CITY	STATE_PROVINCE	CO
Mexico	Mexico City	Distrrito Federal,	MX
Netherlands	Utrecht	Utrecht	NL
Singapore	Singapore		SG
Switzerland	Bern	BE	CH
Switzerland	Geneva	Geneve	CH
United Kingdom	London		UK
United Kingdom	Oxford	Oxford	UK
United Kingdom	Stretford	Manchester	UK
United States of America	Seattle	Washington	US
United States of America	South Brunswick	New Jersey	US
United States of America	South San Francisco	California	US
COUNTRY_NAME	CITY	STATE_PROVINCE	CO
United States of America	Southlake	Texas	US

23 rows selected.

3.

```
SQL> SELECT c.country_name, l.city, l.state_province, l.country_id
  2 FROM countries c LEFT OUTER JOIN locations l ON c.country_id=l.country_id
  3 ORDER BY c.country_name ASC, l.city ASC;
```

COUNTRY_NAME	CITY	STATE_PROVINCE	CO
Argentina			
Australia	Sydney	New South Wales	AU
Belgium			
Brazil	Sao Paulo	Sao Paulo	BR
Canada	Toronto	Ontario	CA
Canada	Whitehorse	Yukon	CA
China	Beijing		CN
Denmark			
Egypt			
France			
Germany	Munich	Bavaria	DE
HongKong			
India	Bombay	Maharashtra	IN
Israel			
Italy	Roma		IT
Italy	Venice		IT
Japan	Hiroshima		JP
Japan	Tokyo	Tokyo Prefecture	JP
Kuwait			
Mexico	Mexico City	Distrito Federal,	MX
Netherlands	Utrecht	Utrecht	NL
Nigeria			
Singapore	Singapore		SG
Switzerland	Bern	BE	CH
Switzerland	Geneva	Geneve	CH
United Kingdom	London		UK
United Kingdom	Oxford	Oxford	UK
United Kingdom	Stretford	Manchester	UK
United States of America	Seattle	Washington	US
United States of America	South Brunswick	New Jersey	US
United States of America	South San Francisco	California	US
United States of America	Southlake	Texas	US
Zambia			
Zimbabwe			

34 rows selected.

```
SQL> SELECT c.country_name, l.city, l.state_province, l.country_id
  2 FROM countries c RIGHT OUTER JOIN locations l ON c.country_id=l.country_id
  3 ORDER BY c.country_name ASC, l.city ASC;
```

COUNTRY_NAME	CITY	STATE_PROVINCE	CO
Australia	Sydney	New South Wales	AU
Brazil	Sao Paulo	Sao Paulo	BR
Canada	Toronto	Ontario	CA
Canada	Whitehorse	Yukon	CA
China	Beijing		CN
Germany	Munich	Bavaria	DE
India	Bombay	Maharashtra	IN
Italy	Roma		IT
Italy	Venice		IT
Japan	Hiroshima		JP
Japan	Tokyo	Tokyo Prefecture	JP
Mexico	Mexico City	Distrito Federal,	MX
Netherlands	Utrecht	Utrecht	NL
Singapore	Singapore		SG
Switzerland	Bern	BE	CH
Switzerland	Geneva	Geneve	CH
United Kingdom	London		UK
United Kingdom	Oxford	Oxford	UK
United Kingdom	Stretford	Manchester	UK
United States of America	Seattle	Washington	US
United States of America	South Brunswick	New Jersey	US
United States of America	South San Francisco	California	US
United States of America	Southlake	Texas	US

23 rows selected.

4.

```
SQL> SELECT c.country_name, l.city, l.state_province, country_id
  2 FROM countries c INNER JOIN locations l USING (country_id)
  3 ORDER BY c.country_name ASC, l.city ASC;
```

COUNTRY_NAME	CITY	STATE_PROVINCE	CO
Australia	Sydney	New South Wales	AU
Brazil	Sao Paulo	Sao Paulo	BR
Canada	Toronto	Ontario	CA
Canada	Whitehorse	Yukon	CA
China	Beijing		CN
Germany	Munich	Bavaria	DE
India	Bombay	Maharashtra	IN
Italy	Roma		IT
Italy	Venice		IT
Japan	Hiroshima		JP
Japan	Tokyo	Tokyo Prefecture	JP
Mexico	Mexico City	Distrito Federal,	MX
Netherlands	Utrecht	Utrecht	NL
Singapore	Singapore		SG
Switzerland	Bern	BE	CH
Switzerland	Geneva	Geneve	CH
United Kingdom	London		UK
United Kingdom	Oxford	Oxford	UK
United Kingdom	Stretford	Manchester	UK
United States of America	Seattle	Washington	US
United States of America	South Brunswick	New Jersey	US
United States of America	South San Francisco	California	US
United States of America	Southlake	Texas	US

23 rows selected.

```
SQL> SELECT c.country_name, l.city, l.state_province, country_id
2 FROM countries c NATURAL INNER JOIN locations l
3 ORDER BY c.country_name ASC, l.city ASC;
```

COUNTRY_NAME	CITY	STATE_PROVINCE	CO
Australia	Sydney	New South Wales	AU
Brazil	Sao Paulo	Sao Paulo	BR
Canada	Toronto	Ontario	CA
Canada	Whitehorse	Yukon	CA
China	Beijing		CN
Germany	Munich	Bavaria	DE
India	Bombay	Maharashtra	IN
Italy	Roma		IT
Italy	Venice		IT
Japan	Hiroshima		JP
Japan	Tokyo	Tokyo Prefecture	JP

COUNTRY_NAME	CITY	STATE_PROVINCE	CO
Mexico	Mexico City	Distrito Federal,	MX
Netherlands	Utrecht	Utrecht	NL
Singapore	Singapore		SG
Switzerland	Bern	BE	CH
Switzerland	Geneva	Geneve	CH
United Kingdom	London		UK
United Kingdom	Oxford	Oxford	UK
United Kingdom	Stretford	Manchester	UK
United States of America	Seattle	Washington	US
United States of America	South Brunswick	New Jersey	US
United States of America	South San Francisco	California	US

COUNTRY_NAME	CITY	STATE_PROVINCE	CO
United States of America	Southlake	Texas	US

23 rows selected.

5.

```
SQL> SELECT e.last_name || ', ' || e.first_name AS "Employee", d.department_name AS "Department_name", m.first_name || ' ' || m.last_name AS "Manager"
2 FROM employees e
3 INNER JOIN departments d USING (department_id)
4 INNER JOIN employees m ON m.employee_id=d.manager_id
5 ORDER BY d.department_name;
```

Employee	Department_name	Manager
Higgins, Shelley	Accounting	Shelley Higgins
Gietz, William	Accounting	Shelley Higgins
Whalen, Jennifer	Administration	Jennifer Whalen
King, Steven	Executive	Steven King
Kochhar, Neena	Executive	Steven King
De Haan, Lex	Executive	Steven King
Greenberg, Nancy	Finance	Nancy Greenberg
Faviet, Daniel	Finance	Nancy Greenberg
Popp, Luis	Finance	Nancy Greenberg
Sciarra, Ismael	Finance	Nancy Greenberg
Urman, Jose Manuel	Finance	Nancy Greenberg

Employee	Department_name	Manager
Chen, John	Finance	Nancy Greenberg
Mavris, Susan	Human Resources	Susan Mavris
Hunold, Alexander	IT	Alexander Hunold
Ernst, Bruce	IT	Alexander Hunold
Lorentz, Diana	IT	Alexander Hunold
Pataballa, Valli	IT	Alexander Hunold
Austin, David	IT	Alexander Hunold
Fay, Pat	Marketing	Michael Hartstein
Hartstein, Michael	Marketing	Michael Hartstein
Baer, Hermann	Public Relations	Hermann Baer
Khoo, Alexander	Purchasing	Den Raphaely

Employee	Department_name	Manager
Sullivan, Martha	Shipping	Adam Fripp
Geoni, Girard	Shipping	Adam Fripp
Sarchand, Nandita	Shipping	Adam Fripp
Bull, Alexis	Shipping	Adam Fripp
Dellinger, Julia	Shipping	Adam Fripp
Cabrio, Anthony	Shipping	Adam Fripp
Chung, Kelly	Shipping	Adam Fripp
Dilly, Jennifer	Shipping	Adam Fripp
Gates, Timothy	Shipping	Adam Fripp
Perkins, Randall	Shipping	Adam Fripp
Bell, Sarah	Shipping	Adam Fripp

Employee	Department_name	Manager
Everett, Britney	Shipping	Adam Fripp
McCain, Samuel	Shipping	Adam Fripp
Jones, Vance	Shipping	Adam Fripp
Walsh, Alana	Shipping	Adam Fripp
Feeney, Kevin	Shipping	Adam Fripp
OConnell, Donald	Shipping	Adam Fripp
Fripp, Adam	Shipping	Adam Fripp

106 rows selected.

6.

```
SQL> SELECT e.last_name AS "Employee Last Name", m.last_name AS "Manager Last Name", e.department_id
2 FROM employees e
3 INNER JOIN employees m ON e.manager_id=m.employee_id
4 WHERE e.department_id=80
5 ORDER BY m.last_name;
```

Employee Last Name	Manager Last Name	DEPARTMENT_ID

Kumar	Cambrault	80
Bates	Cambrault	80
Smith	Cambrault	80
Fox	Cambrault	80
Bloom	Cambrault	80
Ozer	Cambrault	80
Banda	Errazuriz	80
Ande	Errazuriz	80
Lee	Errazuriz	80
Vishney	Errazuriz	80
Greene	Errazuriz	80

Employee Last Name	Manager Last Name	DEPARTMENT_ID
Marvins	Errazuriz	80
Cambrault	King	80
Errazuriz	King	80
Partners	King	80
Russell	King	80
Zlotkey	King	80
Sully	Partners	80
McEwen	Partners	80

Employee Last Name	Manager Last Name	DEPARTMENT_ID
King	Partners	80
Tucker	Russell	80
Bernstein	Russell	80
Hall	Russell	80
Olsen	Russell	80
Cambrault	Russell	80
Tuvault	Russell	80
Johnson	Zlotkey	80
Livingston	Zlotkey	80
Taylor	Zlotkey	80
Hutton	Zlotkey	80

Employee Last Name	Manager Last Name	DEPARTMENT_ID
Abel	Zlotkey	80

34 rows selected.