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

SELECT location\_id, street\_address "Address",

city, state\_province "State",

country\_name "Country"

FROM locations JOIN countries USING(country\_id);

LOCATION\_ID Address CITY State Country

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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 USA

1500 2011 Interiors Blvd South San Francisco California USA

1600 2007 Zagora St South Brunswick New Jersey USA

1700 2004 Charade Rd Seattle Washington USA

1800 147 Spadina Ave Toronto Ontario Canada

1900 6092 Boxwood St Whitehorse Yukon Canada

2000 40-5-12 Laogianggen Beijing China

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 UK

2500 Magdalen Centre Oxford Oxford UK

2600 9702 Chester Road Stretford Manchester UK

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

3200 Mariano Escobedo 9991 Mexico City Distrito Federal, Mexico

2. Display the employee id, last name, job, department name, and job grade for all employees.

SELECT employee\_id, last\_name, job\_id,

department\_name, grade

FROM employees

JOIN departments USING(department\_id)

JOIN job\_grades

ON salary BETWEEN lowest\_sal and highest\_sal

EMPLOYEE\_ID LAST\_NAME JOB\_ID DEPARTMENT\_NAME GRADE

----------------- --------------- ---------- ---------------- ---------

10 King AD\_PRES Executive 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

174 Abel SA\_REP Sales D

149 Zlotkey SA\_MAN Sales D

103 Hunold IT\_PROG IT C

176 Taylor SA\_REP Sales C

206 Gietz AC\_ACCOUNT Accounting C

104 Ernst IT\_PROG IT C

202 Fay MK\_REP Marketing C

124 Mourgos ST\_MAN Shipping 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

200 Whalen AD\_ASST Administration A

144 Vargas ST\_CLERK Shipping A

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

SELECT e.employee\_id, e.last\_name,

e.manager\_id, m.last\_name

FROM employees e LEFT JOIN employees m

ON e.manager\_id = m.employee\_id

EMPLOYEE\_ID LAST\_NAME MANAGER\_ID LAST\_NAME

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103 Hunold 102 De Haan

202 Fay 201 Hartstein

206 Gietz 205 Higgins

107 Lorentz 103 Hunold

104 Ernst 103 Hunold

201 Hartstein 100 King

149 Zlotkey 100 King

124 Mourgos 100 King

102 De Haan 100 King

101 Kochhar 100 King

205 Higgins 101 Kochhar

200 Whalen 101 Kochhar

144 Vargas 124 Mourgos

143 Matos 124 Mourgos

142 Davies 124 Mourgos

141 Rajs 124 Mourgos

178 Grant 149 Zlotkey

176 Taylor 149 Zlotkey

174 Abel 149 Zlotkey

100 King

4.  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).

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

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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

101 Kochhar Executive Seattle

102 De Haan Executive Seattle

200 Whalen Administration Seattle

201 Hartstein Marketing Toronto

202 Fay Marketing Toronto

149 Zlotkey Sales Oxford

174 Abel Sales Oxford

176 Taylor Sales Oxford

178 Grant

5. Display the name of each employee and the city they are assigned to (if applicable).

SELECT first\_name || ' ' || last\_name "Name", city

FROM employees

LEFT JOIN departments USING(department\_id)

LEFT JOIN locations USING(location\_id)

Name CITY

-------------------- ------------------------------

Alexander Hunold Southlake

Bruce Ernst Southlake

Diana Lorentz Southlake

Kevin Mourgos South San Francisco

Trenna Rajs South San Francisco

Curtis Davies South San Francisco

Randall Matos South San Francisco

Peter Vargas South San Francisco

Shelley Higgins Seattle

William Gietz Seattle

Steven King Seattle

Neena Kochhar Seattle

Lex De Haan Seattle

Jennifer Whalen Seattle

Michael Hartstein Toronto

Pat Fay Toronto

Eleni Zlotkey Oxford

Ellen Abel Oxford

Jonathon Taylor Oxford

Kimberely Grant

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

SELECT city, first\_name || ' ' || last\_name "Name"

FROM employees

RIGHT JOIN departments USING(department\_id)

RIGHT JOIN locations USING(location\_id)

CITY Name

------------------------------ --------------------

Seattle Jennifer Whalen

Toronto Michael Hartstein

Toronto Pat Fay

South San Francisco Curtis Davies

South San Francisco Peter Vargas

South San Francisco Trenna Rajs

South San Francisco Kevin Mourgos

South San Francisco Randall Matos

Southlake Alexander Hunold

Southlake Bruce Ernst

Southlake Diana Lorentz

Oxford Ellen Abel

Oxford Eleni Zlotkey

Oxford Jonathon Taylor

Seattle Lex De Haan

Seattle Steven King

Seattle Neena Kochhar

Seattle William Gietz

Seattle Shelley Higgins

Seattle

Beijing

Bern

London

Tokyo

Sydney

Utrecht

South Brunswick

Bombay

Geneva

Sao Paulo

Venice

Whitehorse

Singapore

Hiroshima

Stretford

Roma

Mexico City

Munich

7. Display all employees and all cities.

SELECT first\_name || ' ' || last\_name "Name", city

FROM employees

FULL JOIN departments USING(department\_id)

FULL JOIN locations USING(location\_id)

Name CITY

-------------------- ------------------------------

Roma

Venice

Tokyo

Hiroshima

Diana Lorentz Southlake

Bruce Ernst Southlake

Alexander Hunold Southlake

Peter Vargas South San Francisco

Randall Matos South San Francisco

Curtis Davies South San Francisco

Trenna Rajs South San Francisco

Kevin Mourgos South San Francisco

South Brunswick

Seattle

William Gietz Seattle

Shelley Higgins Seattle

Jennifer Whalen Seattle

Lex De Haan Seattle

Neena Kochhar Seattle

Steven King Seattle

Pat Fay Toronto

Michael Hartstein Toronto

Whitehorse

Beijing

Bombay

Sydney

Singapore

London

Jonathon Taylor Oxford

Ellen Abel Oxford

Eleni Zlotkey Oxford

Stretford

Munich

Sao Paulo

Geneva

Bern

Utrecht

Mexico City

Kimberely Grant