1.

mysql> INSERT INTO department VALUES

-> (10,"Administration",200,1700),

-> (20,"Marketing",201,1800),

-> (30,"Purchasing",114,1700),

-> (40,"Human Resources",203,2400),

-> (50,"Shipping",121,1500),

-> (60,"IT",103,1400),

-> (70,"Public Relations",204,2700),

-> (80,"Sales",145,2500);

mysql> SELECT \* FROM department;

+---------+------------------+------------+-------------+

| dept\_id | dept\_name | manager\_id | location\_id |

+---------+------------------+------------+-------------+

| 10 | Administration | 200 | 1700 |

| 20 | Marketing | 201 | 1800 |

| 30 | Purchasing | 114 | 1700 |

| 40 | Human Resources | 203 | 2400 |

| 50 | Shipping | 121 | 1500 |

| 60 | IT | 103 | 1400 |

| 70 | Public Relations | 204 | 2700 |

| 80 | Sales | 145 | 2500 |

+---------+------------------+------------+-------------+

mysql> INSERT INTO employee VALUES

-> (100, "Steven", "King", "SKING", "515.123.4567", "1987-06-17", "AD\_PRES", 24000, 0, 200, 10),

-> (101, "Neena", "Kochhar", "NKOCHHAR", "515.123.4568", "1987-06-18", "AD\_VP", 17000, 0, 200, 10),

-> (102, "Lex", "De Haan", "LDEHAAN", "515.123.4569", "1987-06-19", "AD\_VP", 17000, 0, 200, 10),

-> (103, "Alexander", "Hunold", "AHUNOLD", "590.423.4567", "1987-06-20", "IT\_PROG", 9000, 0, 103, 60),

-> (104, "Bruce", "Ernst", "BERNST", "590.423.4568", "1987-06-21", "IT\_PROG", 6000, 0, 103, 60),

-> (105, "David", "Austin", "DAUSTIN", "590.423.4569", "1987-06-22", "IT\_PROG", 4800, 0, 103, 60),

-> (106, "Valli", "Pataballa", "VPATABAL", "590.423.4560", "1987-06-23", "IT\_PROG", 4800, 0, 103, 60),

-> (107, "Diana", "Lorentz", "DLORENTZ", "590.423.5567", "1987-06-24", "IT\_PROG", 4200, 0, 114, 30),

-> (108, "Nancy", "Greenberg", "NGREENBE", "515.124.4569", "1987-06-25", "SA\_MAN", 12000, 0, 145, 80),

-> (109, "Daniel", "Faviet", "DFAVIET", "515.124.4169", "1987-06-26", "SA\_MAN", 9000, 0, 145, 80);

mysql> SELECT \* FROM employee;

+--------+------------+-----------+----------+--------------+------------+---------+----------+----------------+------------+---------+

| emp\_id | first\_name | last\_name | email | phone\_no | hire\_date | job\_id | salary | commission\_pct | manager\_id | dept\_id |

+--------+------------+-----------+----------+--------------+------------+---------+----------+----------------+------------+---------+

| 100 | Steven | King | SKING | 515.123.4567 | 1987-06-17 | AD\_PRES | 24000.00 | 0.00 | 200 | 10 |

| 101 | Neena | Kochhar | NKOCHHAR | 515.123.4568 | 1987-06-18 | AD\_VP | 17000.00 | 0.00 | 200 | 10 |

| 102 | Lex | De Haan | LDEHAAN | 515.123.4569 | 1987-06-19 | AD\_VP | 17000.00 | 0.00 | 200 | 10 |

| 103 | Alexander | Hunold | AHUNOLD | 590.423.4567 | 1987-06-20 | IT\_PROG | 9000.00 | 0.00 | 103 | 60 |

| 104 | Bruce | Ernst | BERNST | 590.423.4568 | 1987-06-21 | IT\_PROG | 6000.00 | 0.00 | 103 | 60 |

| 105 | David | Austin | DAUSTIN | 590.423.4569 | 1987-06-22 | IT\_PROG | 4800.00 | 0.00 | 103 | 60 |

| 106 | Valli | Pataballa | VPATABAL | 590.423.4560 | 1987-06-23 | IT\_PROG | 4800.00 | 0.00 | 103 | 60 |

| 107 | Diana | Lorentz | DLORENTZ | 590.423.5567 | 1987-06-24 | IT\_PROG | 4200.00 | 0.00 | 114 | 30 |

| 108 | Nancy | Greenberg | NGREENBE | 515.124.4569 | 1987-06-25 | SA\_MAN | 12000.00 | 0.00 | 145 | 80 |

| 109 | Daniel | Faviet | DFAVIET | 515.124.4169 | 1987-06-26 | SA\_MAN | 9000.00 | 0.00 | 145 | 80 |

+--------+------------+-----------+----------+--------------+------------+---------+----------+----------------+------------+---------+

2.

mysql> INSERT INTO employee VALUES

-> (110,"John","Chen","JCHEN","515.123.7890","1987-06-27","SA\_MAN",8200.00,0.00,145,80),

-> (111,"Karen","Smith","KSMITH","590.423.7891","1987-06-28","IT\_PROG",6100.00,0.00,103,60),

-> (112,"Michael","Brown","MBROWN","515.124.7892","1987-06-29","SA\_MAN",9500.00,0.00,145,80);

3.

mysql> desc jobs;

+------------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+------------+--------------+------+-----+---------+-------+

| job\_id | varchar(20) | NO | PRI | NULL | |

| job\_title | varchar(50) | YES | | NULL | |

| min\_salary | decimal(7,2) | YES | | NULL | |

| max\_salary | decimal(8,2) | YES | | NULL | |

+------------+--------------+------+-----+---------+-------+

4.

mysql> UPDATE employee SET salary = salary + salary \* 0.10;

mysql> SELECT \* FROM employee;

+--------+------------+-----------+----------+--------------+------------+---------+----------+----------------+------------+---------+

| emp\_id | first\_name | last\_name | email | phone\_no | hire\_date | job\_id | salary | commission\_pct | manager\_id | dept\_id |

+--------+------------+-----------+----------+--------------+------------+---------+----------+----------------+------------+---------+

| 100 | Steven | King | SKING | 515.123.4567 | 1987-06-17 | AD\_PRES | 26400.00 | 0.00 | 200 | 10 |

| 101 | Neena | Kochhar | NKOCHHAR | 515.123.4568 | 1987-06-18 | AD\_VP | 18700.00 | 0.00 | 200 | 10 |

| 102 | Lex | De Haan | LDEHAAN | 515.123.4569 | 1987-06-19 | AD\_VP | 18700.00 | 0.00 | 200 | 10 |

| 103 | Alexander | Hunold | AHUNOLD | 590.423.4567 | 1987-06-20 | IT\_PROG | 9900.00 | 0.00 | 103 | 60 |

| 104 | Bruce | Ernst | BERNST | 590.423.4568 | 1987-06-21 | IT\_PROG | 6600.00 | 0.00 | 103 | 60 |

| 105 | David | Austin | DAUSTIN | 590.423.4569 | 1987-06-22 | IT\_PROG | 5280.00 | 0.00 | 103 | 60 |

| 106 | Valli | Pataballa | VPATABAL | 590.423.4560 | 1987-06-23 | IT\_PROG | 5280.00 | 0.00 | 103 | 60 |

| 107 | Diana | Lorentz | DLORENTZ | 590.423.5567 | 1987-06-24 | IT\_PROG | 4620.00 | 0.00 | 114 | 30 |

| 108 | Nancy | Greenberg | NGREENBE | 515.124.4569 | 1987-06-25 | SA\_MAN | 13200.00 | 0.00 | 145 | 80 |

| 109 | Daniel | Faviet | DFAVIET | 515.124.4169 | 1987-06-26 | SA\_MAN | 9900.00 | 0.00 | 145 | 80 |

| 110 | John | Chen | JCHEN | 515.123.7890 | 1987-06-27 | SA\_MAN | 9020.00 | 0.00 | 145 | 80 |

| 111 | Karen | Smith | KSMITH | 590.423.7891 | 1987-06-28 | IT\_PROG | 6710.00 | 0.00 | 103 | 60 |

| 112 | Michael | Brown | MBROWN | 515.124.7892 | 1987-06-29 | SA\_MAN | 10450.00 | 0.00 | 145 | 80 |

+--------+------------+-----------+----------+--------------+------------+---------+----------+----------------+------------+---------+

5.

mysql> UPDATE employee SET email = "not available" WHERE dept\_id = 80 and commission\_pct < 0.20;

mysql> SELECT \* FROM employee;

+--------+------------+-----------+---------------+--------------+------------+---------+----------+----------------+------------+---------+

| emp\_id | first\_name | last\_name | email | phone\_no | hire\_date | job\_id | salary | commission\_pct | manager\_id | dept\_id |

+--------+------------+-----------+---------------+--------------+------------+---------+----------+----------------+------------+---------+

| 100 | Steven | King | SKING | 515.123.4567 | 1987-06-17 | AD\_PRES | 26400.00 | 0.00 | 200 | 10 |

| 101 | Neena | Kochhar | NKOCHHAR | 515.123.4568 | 1987-06-18 | AD\_VP | 18700.00 | 0.00 | 200 | 10 |

| 102 | Lex | De Haan | LDEHAAN | 515.123.4569 | 1987-06-19 | AD\_VP | 18700.00 | 0.00 | 200 | 10 |

| 103 | Alexander | Hunold | AHUNOLD | 590.423.4567 | 1987-06-20 | IT\_PROG | 9900.00 | 0.00 | 103 | 60 |

| 104 | Bruce | Ernst | BERNST | 590.423.4568 | 1987-06-21 | IT\_PROG | 6600.00 | 0.00 | 103 | 60 |

| 105 | David | Austin | DAUSTIN | 590.423.4569 | 1987-06-22 | IT\_PROG | 5280.00 | 0.00 | 103 | 60 |

| 106 | Valli | Pataballa | VPATABAL | 590.423.4560 | 1987-06-23 | IT\_PROG | 5280.00 | 0.00 | 103 | 60 |

| 107 | Diana | Lorentz | DLORENTZ | 590.423.5567 | 1987-06-24 | IT\_PROG | 4620.00 | 0.00 | 114 | 30 |

| 108 | Nancy | Greenberg | not available | 515.124.4569 | 1987-06-25 | SA\_MAN | 13200.00 | 0.00 | 145 | 80 |

| 109 | Daniel | Faviet | not available | 515.124.4169 | 1987-06-26 | SA\_MAN | 9900.00 | 0.00 | 145 | 80 |

| 110 | John | Chen | not available | 515.123.7890 | 1987-06-27 | SA\_MAN | 9020.00 | 0.00 | 145 | 80 |

| 111 | Karen | Smith | KSMITH | 590.423.7891 | 1987-06-28 | IT\_PROG | 6710.00 | 0.00 | 103 | 60 |

| 112 | Michael | Brown | not available | 515.124.7892 | 1987-06-29 | SA\_MAN | 10450.00 | 0.00 | 145 | 80 |

+--------+------------+-----------+---------------+--------------+------------+---------+----------+----------------+------------+---------+

6.

mysql> UPDATE employee SET email = "not available" WHERE dept\_id = 30;

mysql> SELECT \* FROM employee;

+--------+------------+-----------+---------------+--------------+------------+---------+----------+----------------+------------+---------+

| emp\_id | first\_name | last\_name | email | phone\_no | hire\_date | job\_id | salary | commission\_pct | manager\_id | dept\_id |

+--------+------------+-----------+---------------+--------------+------------+---------+----------+----------------+------------+---------+

| 100 | Steven | King | SKING | 515.123.4567 | 1987-06-17 | AD\_PRES | 26400.00 | 0.00 | 200 | 10 |

| 101 | Neena | Kochhar | NKOCHHAR | 515.123.4568 | 1987-06-18 | AD\_VP | 18700.00 | 0.00 | 200 | 10 |

| 102 | Lex | De Haan | LDEHAAN | 515.123.4569 | 1987-06-19 | AD\_VP | 18700.00 | 0.00 | 200 | 10 |

| 103 | Alexander | Hunold | AHUNOLD | 590.423.4567 | 1987-06-20 | IT\_PROG | 9900.00 | 0.00 | 103 | 60 |

| 104 | Bruce | Ernst | BERNST | 590.423.4568 | 1987-06-21 | IT\_PROG | 6600.00 | 0.00 | 103 | 60 |

| 105 | David | Austin | DAUSTIN | 590.423.4569 | 1987-06-22 | IT\_PROG | 5280.00 | 0.00 | 103 | 60 |

| 106 | Valli | Pataballa | VPATABAL | 590.423.4560 | 1987-06-23 | IT\_PROG | 5280.00 | 0.00 | 103 | 60 |

| 107 | Diana | Lorentz | not available | 590.423.5567 | 1987-06-24 | IT\_PROG | 4620.00 | 0.00 | 114 | 30 |

| 108 | Nancy | Greenberg | not available | 515.124.4569 | 1987-06-25 | SA\_MAN | 13200.00 | 0.00 | 145 | 80 |

| 109 | Daniel | Faviet | not available | 515.124.4169 | 1987-06-26 | SA\_MAN | 9900.00 | 0.00 | 145 | 80 |

| 110 | John | Chen | not available | 515.123.7890 | 1987-06-27 | SA\_MAN | 9020.00 | 0.00 | 145 | 80 |

| 111 | Karen | Smith | KSMITH | 590.423.7891 | 1987-06-28 | IT\_PROG | 6710.00 | 0.00 | 103 | 60 |

| 112 | Michael | Brown | not available | 515.124.7892 | 1987-06-29 | SA\_MAN | 10450.00 | 0.00 | 145 | 80 |

+--------+------------+-----------+---------------+--------------+------------+---------+----------+----------------+------------+---------+

7.

mysql> UPDATE employee SET email = "not available", commission\_pct = 0.10;

mysql> SELECT \* FROM employee;

+--------+------------+-----------+---------------+--------------+------------+---------+----------+----------------+------------+---------+

| emp\_id | first\_name | last\_name | email | phone\_no | hire\_date | job\_id | salary | commission\_pct | manager\_id | dept\_id |

+--------+------------+-----------+---------------+--------------+------------+---------+----------+----------------+------------+---------+

| 100 | Steven | King | not available | 515.123.4567 | 1987-06-17 | AD\_PRES | 26400.00 | 0.10 | 200 | 10 |

| 101 | Neena | Kochhar | not available | 515.123.4568 | 1987-06-18 | AD\_VP | 18700.00 | 0.10 | 200 | 10 |

| 102 | Lex | De Haan | not available | 515.123.4569 | 1987-06-19 | AD\_VP | 18700.00 | 0.10 | 200 | 10 |

| 103 | Alexander | Hunold | not available | 590.423.4567 | 1987-06-20 | IT\_PROG | 9900.00 | 0.10 | 103 | 60 |

| 104 | Bruce | Ernst | not available | 590.423.4568 | 1987-06-21 | IT\_PROG | 6600.00 | 0.10 | 103 | 60 |

| 105 | David | Austin | not available | 590.423.4569 | 1987-06-22 | IT\_PROG | 5280.00 | 0.10 | 103 | 60 |

| 106 | Valli | Pataballa | not available | 590.423.4560 | 1987-06-23 | IT\_PROG | 5280.00 | 0.10 | 103 | 60 |

| 107 | Diana | Lorentz | not available | 590.423.5567 | 1987-06-24 | IT\_PROG | 4620.00 | 0.10 | 114 | 30 |

| 108 | Nancy | Greenberg | not available | 515.124.4569 | 1987-06-25 | SA\_MAN | 13200.00 | 0.10 | 145 | 80 |

| 109 | Daniel | Faviet | not available | 515.124.4169 | 1987-06-26 | SA\_MAN | 9900.00 | 0.10 | 145 | 80 |

| 110 | John | Chen | not available | 515.123.7890 | 1987-06-27 | SA\_MAN | 9020.00 | 0.10 | 145 | 80 |

| 111 | Karen | Smith | not available | 590.423.7891 | 1987-06-28 | IT\_PROG | 6710.00 | 0.10 | 103 | 60 |

| 112 | Michael | Brown | not available | 515.124.7892 | 1987-06-29 | SA\_MAN | 10450.00 | 0.10 | 145 | 80 |

+--------+------------+-----------+---------------+--------------+------------+---------+----------+----------------+------------+---------+