1.

mysql> SELECT first\_name AS "First Name",last\_name AS "Last Name" FROM employee;

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

| First Name | Last Name |

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

| Steven | King |

| Neena | Kochhar |

| Lex | De Haan |

| Alexander | Hunold |

| Bruce | Ernst |

| David | Austin |

| Valli | Pataballa |

| Diana | Lorentz |

| Nancy | Greenberg |

| Daniel | Faviet |

| John | Chen |

| Karen | Smith |

| Michael | Brown |

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

2.

mysql> SELECT DISTINCT dept\_id FROM employee;

+---------+

| dept\_id |

+---------+

| 10 |

| 30 |

| 60 |

| 80 |

+---------+

3.

mysql> SELECT \* FROM employee

-> ORDER BY first\_name DESC;

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

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

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

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

| 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 |

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

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

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

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

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

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

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

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

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

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

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

4.

mysql> SELECT first\_name, last\_name, salary, salary \* 0.15 AS PF FROM employee;

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

| first\_name | last\_name | salary | PF |

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

| Steven | King | 26400.00 | 3960.00 |

| Neena | Kochhar | 18700.00 | 2805.00 |

| Lex | De Haan | 18700.00 | 2805.00 |

| Alexander | Hunold | 9900.00 | 1485.00 |

| Bruce | Ernst | 6600.00 | 990.00 |

| David | Austin | 5280.00 | 792.00 |

| Valli | Pataballa | 5280.00 | 792.00 |

| Diana | Lorentz | 4620.00 | 693.00 |

| Nancy | Greenberg | 13200.00 | 1980.00 |

| Daniel | Faviet | 9900.00 | 1485.00 |

| John | Chen | 9020.00 | 1353.00 |

| Karen | Smith | 6710.00 | 1006.50 |

| Michael | Brown | 10450.00 | 1567.50 |

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

5.

mysql> SELECT emp\_id, first\_name, last\_name, salary FROM employee

-> ORDER BY salary;

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

| emp\_id | first\_name | last\_name | salary |

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

| 107 | Diana | Lorentz | 4620.00 |

| 105 | David | Austin | 5280.00 |

| 106 | Valli | Pataballa | 5280.00 |

| 104 | Bruce | Ernst | 6600.00 |

| 111 | Karen | Smith | 6710.00 |

| 110 | John | Chen | 9020.00 |

| 103 | Alexander | Hunold | 9900.00 |

| 109 | Daniel | Faviet | 9900.00 |

| 112 | Michael | Brown | 10450.00 |

| 108 | Nancy | Greenberg | 13200.00 |

| 101 | Neena | Kochhar | 18700.00 |

| 102 | Lex | De Haan | 18700.00 |

| 100 | Steven | King | 26400.00 |

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

6.

mysql> SELECT SUM(salary) FROM employee;

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

| SUM(salary) |

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

| 144760.00 |

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

7.

mysql> SELECT MAX(salary) AS "maximum salary", MIN(salary) AS "minimum salary" FROM employee;

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

| maximum salary | minimum salary |

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

| 26400.00 | 4620.00 |

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

8.

mysql> SELECT AVG(salary), COUNT(emp\_id) AS "no of employees" FROM employee;

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

| AVG(salary) | no of employees |

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

| 11135.384615 | 13 |

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

9.

mysql> SELECT COUNT(hire\_date) FROM employee;

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

| COUNT(hire\_date) |

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

| 13 |

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

10.

mysql> SELECT COUNT(DISTINCT job\_id) AS "no of jobs" FROM employee;

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

| no of jobs |

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

| 4 |

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

11.

mysql> SELECT \* FROM employee

-> ORDER BY emp\_id

-> LIMIT 10;

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

| 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 |

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

12.

mysql> SELECT first\_name, last\_name, salary FROM employee

-> WHERE salary NOT BETWEEN 10000 AND 15000;

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

| first\_name | last\_name | salary |

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

| Steven | King | 26400.00 |

| Neena | Kochhar | 18700.00 |

| Lex | De Haan | 18700.00 |

| Alexander | Hunold | 9900.00 |

| Bruce | Ernst | 6600.00 |

| David | Austin | 5280.00 |

| Valli | Pataballa | 5280.00 |

| Diana | Lorentz | 4620.00 |

| Daniel | Faviet | 9900.00 |

| John | Chen | 9020.00 |

| Karen | Smith | 6710.00 |

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

13.

mysql> SELECT first\_name, last\_name, dept\_id FROM employee

-> WHERE dept\_id BETWEEN 30 AND 100;

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

| first\_name | last\_name | dept\_id |

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

| Alexander | Hunold | 60 |

| Bruce | Ernst | 60 |

| David | Austin | 60 |

| Valli | Pataballa | 60 |

| Diana | Lorentz | 30 |

| Nancy | Greenberg | 80 |

| Daniel | Faviet | 80 |

| John | Chen | 80 |

| Karen | Smith | 60 |

| Michael | Brown | 80 |

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

14.

mysql> SELECT first\_name, last\_name, salary FROM employee

-> WHERE salary NOT BETWEEN 10000 AND 15000 AND dept\_id BETWEEN 30 AND 100;

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

| first\_name | last\_name | salary |

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

| Alexander | Hunold | 9900.00 |

| Bruce | Ernst | 6600.00 |

| David | Austin | 5280.00 |

| Valli | Pataballa | 5280.00 |

| Diana | Lorentz | 4620.00 |

| Daniel | Faviet | 9900.00 |

| John | Chen | 9020.00 |

| Karen | Smith | 6710.00 |

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

15.

mysql> SELECT first\_name, last\_name, hire\_date FROM employee

-> WHERE YEAR(hire\_date) = 1987;

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

| first\_name | last\_name | hire\_date |

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

| Steven | King | 1987-06-17 |

| Neena | Kochhar | 1987-06-18 |

| Lex | De Haan | 1987-06-19 |

| Alexander | Hunold | 1987-06-20 |

| Bruce | Ernst | 1987-06-21 |

| David | Austin | 1987-06-22 |

| Valli | Pataballa | 1987-06-23 |

| Diana | Lorentz | 1987-06-24 |

| Nancy | Greenberg | 1987-06-25 |

| Daniel | Faviet | 1987-06-26 |

| John | Chen | 1987-06-27 |

| Karen | Smith | 1987-06-28 |

| Michael | Brown | 1987-06-29 |

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

16.

mysql> SELECT first\_name FROM employee

-> WHERE first\_name LIKE "%b%" AND first\_name LIKE "%c%";

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

| first\_name |

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

| Bruce |

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

17.

mysql> SELECT last\_name, job\_id, salary FROM employee

-> WHERE job\_id IN (SELECT job\_id FROM jobs WHERE job\_title = "IT programming" OR job\_title = "Shipping Clerk")

-> AND salary NOT IN (4500, 10000, 15000);

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

| last\_name | job\_id | salary |

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

| Hunold | IT\_PROG | 9900.00 |

| Ernst | IT\_PROG | 6600.00 |

| Austin | IT\_PROG | 5280.00 |

| Pataballa | IT\_PROG | 5280.00 |

| Lorentz | IT\_PROG | 4620.00 |

| Smith | IT\_PROG | 6710.00 |

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

18.

mysql> SELECT last\_name FROM employee

-> WHERE LENGTH(last\_name) = 6;

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

| last\_name |

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

| Hunold |

| Austin |

| Faviet |

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

19.

mysql> SELECT last\_name FROM employee

-> WHERE last\_name LIKE "\_\_\_e%";

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

| last\_name |

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

| Lorentz |

| Greenberg |

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

20.

mysql> SELECT DISTINCT address FROM employee;

+---------+

| address |

+---------+

| pune |

| mumbai |

+---------+

21.

mysql> SELECT \* FROM employee

-> WHERE last\_name IN ("BLAKE","SCOTT","KING","FORD");

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

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

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

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

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