1.

mysql> create table employee2(employee\_id int (6) not null,last\_name varchar(25),job\_id varchar(10),salary float(8,2),comm\_pct float(4,2),mgr\_id int(6) not null,department\_id int(4) not null); Query OK, 0 rows affected, 5 warnings (0.06 sec) mysql> desc employee2; +---------------+-------------+------+-----+---------+-------+ | Field | Type | Null | Key | Default | Extra | +---------------+-------------+------+-----+---------+-------+ | employee\_id | int | NO | | NULL | | | last\_name | varchar(25) | YES | | NULL | | | job\_id | varchar(10) | YES | | NULL | | | salary | float(8,2) | YES | | NULL | | | comm\_pct | float(4,2) | YES | | NULL | | | mgr\_id | int | NO | | NULL | | | department\_id | int | NO | | NULL | | +---------------+-------------+------+-----+---------+-------+ 7 rows in set (0.01 sec)

2.

mysql> insert into employee2 values(198,'Connell','SH\_CLERK',2600,2.5,124,50),(199,'Grant','SH\_CLERK',2600,2.2,124,50),(200,'Whalen','AD\_ASST',4400,1.3,101,10),(201,'Harstein','IT\_PROG',6000,null,100,20); Query OK, 4 rows affected (0.01 sec) Records: 4 Duplicates: 0 Warnings: 0 mysql> select \* from employee2; +-------------+-----------+----------+---------+----------+--------+---------------+ | employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id | +-------------+-----------+----------+---------+----------+--------+---------------+ | 198 | Connell | SH\_CLERK | 2600.00 | 2.50 | 124 | 50 | | 199 | Grant | SH\_CLERK | 2600.00 | 2.20 | 124 | 50 | | 200 | Whalen | AD\_ASST | 4400.00 | 1.30 | 101 | 10 | | 201 | Harstein | IT\_PROG | 6000.00 | NULL | 100 | 20 | +-------------+-----------+----------+---------+----------+--------+---------------+ 4 rows in set (0.00 sec)

3.

mysql> insert into employee2 values(202,'Fay','AC\_MGR',6500,null,210,20),(203,'Mavris','AD\_VP',7500,null,101,40),(204,'Baer','AD\_PRESS',3500,1.5,101,90),(205,'Higgins','AC\_MGR',2300,null,101,60),(206,'Gitz','IT\_PROG',5000,null,103,60),(100,'King','AD\_ASST',8956,0.3,108,100),(101,'Koachar','SH\_CLERK',3400,1.3,118,30); Query OK, 7 rows affected (0.01 sec) Records: 7 Duplicates: 0 Warnings: 0 mysql> select \* from employee2; +---------------+---------+----------+---------+----------+--------+--------------- + | employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id | +-------------+-----------+----------+---------+----------+--------+---------------+ | 198 | Connell | SH\_CLERK | 2600.00 | 2.50 | 124 | 50 | | 199 | Grant | SH\_CLERK | 2600.00 | 2.20 | 124 | 50 | | 200 | Whalen | AD\_ASST | 4400.00 | 1.30 | 101 | 10 | | 201 | Harstein | IT\_PROG | 6000.00 | NULL | 100 | 20 | | 202 | Fay | AC\_MGR | 6500.00 | NULL | 210 | 20 | | 203 | Mavris | AD\_VP | 7500.00 | NULL | 101 | 40 | | 204 | Baer | AD\_PRESS | 3500.00 | 1.50 | 101 | 90 | | 205 | Higgins | AC\_MGR | 2300.00 | NULL | 101 | 60 | | 206 | Gitz | IT\_PROG | 5000.00 | NULL | 103 | 60 | | 100 | King | AD\_ASST | 8956.00 | 0.30 | 108 | 100 | | 101 | Koachar | SH\_CLERK | 3400.00 | 1.30 | 118 | 30 | +-------------+-----------+----------+---------+----------+--------+---------------+ 11 rows in set (0.00 sec)

4.

mysql> select employee\_id,last\_name,job\_id from employee2 order by employee\_id; +-------------+-----------+----------+ | employee\_id | last\_name | job\_id | +-------------+-----------+----------+ | 100 | King | AD\_ASST | | 101 | Koachar | SH\_CLERK | | 198 | Connell | SH\_CLERK | | 199 | Grant | SH\_CLERK | | 200 | Whalen | AD\_ASST | | 201 | Harstein | IT\_PROG | | 202 | Fay | AC\_MGR | | 203 | Mavris | AD\_VP | | 204 | Baer | AD\_PRESS | | 205 | Higgins | AC\_MGR | | 206 | Gitz | IT\_PROG | +-------------+-----------+----------+ 11 rows in set (0.00 sec)

5.

mysql> select \* from employee2 where department\_id like 60; +-------------+-----------+---------+---------+----------+--------+---------------+ | employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id | +-------------+-----------+---------+---------+----------+--------+---------------+ | 205 | Higgins | AC\_MGR | 2300.00 | NULL | 101 | 60 | | 206 | Gitz | IT\_PROG | 5000.00 | NULL | 103 | 60 | +-------------+-----------+---------+---------+----------+--------+---------------+ 2 rows in set (0.01 sec)

6.

mysql> select \* from employee2 where last\_name like'king'; +-------------+-----------+---------+---------+----------+--------+---------------+ | employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id | +-------------+-----------+---------+---------+----------+--------+---------------+ | 100 | King | AD\_ASST | 8956.00 | 0.30 | 108 | 100 | +-------------+-----------+---------+---------+----------+--------+---------------+ 1 row in set (0.00 sec)

7.

mysql> select \* from employee2 where last\_name like'king'; +-------------+-----------+---------+---------+----------+--------+---------------+ | employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id | +-------------+-----------+---------+---------+----------+--------+---------------+ | 100 | King | AD\_ASST | 8956.00 | 0.30 | 108 | 100 | +-------------+-----------+---------+---------+----------+--------+---------------+ 1 row in set (0.00 sec)

9. mysql> select \* from employee2 where comm\_pct is not null; +-------------+-----------+----------+---------+----------+--------+---------------+------------------+ | employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id | increased\_salary | +-------------+-----------+----------+---------+----------+--------+---------------+------------------+ | 198 | Connell | SH\_CLERK | 2600.00 | 2.50 | 124 | 50 | 300 | | 199 | Grant | SH\_CLERK | 2600.00 | 2.20 | 124 | 50 | 300 | | 200 | Whalen | AD\_ASST | 4400.00 | 1.30 | 101 | 10 | 300 | | 204 | Baer | AD\_PRESS | 3500.00 | 1.50 | 101 | 90 | 300 | | 100 | King | AD\_ASST | 8956.00 | 0.30 | 108 | 100 | 300 | | 101 | Koachar | SH\_CLERK | 3400.00 | 1.30 | 118 | 30 | 300 | +-------------+-----------+----------+---------+----------+--------+---------------+------------------+ 6 rows in set (0.00 sec)

10.

mysql> select \* from employee2 where comm\_pct is null; +-------------+-----------+---------+---------+----------+--------+---------------+------------------+ | employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id | increased\_salary | +-------------+-----------+---------+---------+----------+--------+---------------+------------------+ | 201 | Harstein | IT\_PROG | 6000.00 | NULL | 100 | 20 | 300 | | 202 | Fay | AC\_MGR | 6500.00 | NULL | 210 | 20 | 300 | | 203 | Mavris | AD\_VP | 7500.00 | NULL | 101 | 40 | 300 | | 205 | Higgins | AC\_MGR | 2300.00 | NULL | 101 | 60 | 300 | | 206 | Gitz | IT\_PROG | 5000.00 | NULL | 103 | 60 | 300 | +-------------+-----------+---------+---------+----------+--------+---------------+------------------+ 5 rows in set (0.00 sec)

11.

mysql> select employee\_id,department\_id,salary from employee where salary>5000; +-------------+---------------+--------+ | employee\_id | department\_id | salary | +-------------+---------------+--------+ | 100 | 100 | 8656 | 201 | 20 | 6000 | | | 202 | 20 | 6500 | | 203 | 40 | 7500 | +-------------+---------------+--------+ 4 rows

inset (0.00 sec)

12. mysql> select employee\_id,department\_id,salary from employee where salary<7000 and salary>4000; +-------------+---------------+--------+ | employee\_id | department\_id | salary | +-------------+---------------+--------+ | 200 | 10 | 4400 | | 201 | 20 | 6000 | | 202 | 20 | 6500 | | 206 | 60 | 5000 | +-------------+---------------+--------+ 4 rows in set (0.00 sec)

13. mysql> select employee\_id,department\_id,salary from employee2 where salary=6000 or salary=6500 or salary=7000; +-------------+---------------+---------+ | employee\_id | department\_id | salary | +-------------+---------------+---------+ | 201 | 20 | 6000.00 | | 202 | 20 | 6500.00 | +-------------+---------------+---------+ 2 rows in set (0.01 sec)

14.

mysql> select \* from employee where department\_id=10 or department\_id=20 or department\_id=30 or department\_id=50; +-------------+-----------+----------+--------+----------+--------+---------------+------------------+ | employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id | Increased\_salary | +-------------+-----------+----------+--------+----------+--------+---------------+------------------+ | 101 | KOACHAR | SH\_CLERK | 3400 | 1.3 | 118 | 30 | 300 | | 198 | Connell | SH\_CLERK | 2600 | 2.5 | 124 | 50 | 300 | | 200 | WHALEN | AD\_ASST | 4400 | 1.3 | 101 | 10 | 300 | | 201 | HARTSTEIN | GRADE\_A | 6000 | NULL | 100 | 20 | 300 | | 202 | FAY | GRADE\_A | 6500 | NULL | 210 | 20 | 300 | +-------------+-----------+----------+--------+----------+--------+---------------+------------------+ 5 rows in set (0.00 sec)

15.

mysql> select employee\_id,department\_id,salary from employee where salary!=5000; +-------------+---------------+--------+ | employee\_id | department\_id | salary | +-------------+---------------+--------+ | 100 | 100 | 8656 | | 101 | 30 | 3400 | | 198 | 50 | 2600 | | 199 | 60 | 2600 | | 200 | 10 | 4400 | | 201 | 20 | 6000 | | 202 | 20 | 6500 | | 203 | 40 | 7500 | | 204 | 60 | 3500 | | 205 | 60 | 2300 | +-------------+---------------+--------+ 10 rows in set (0.00 sec)

16.

mysql> select \* from employee2 where job\_id='SH\_CLERK'; +-------------+-----------+----------+---------+----------+--------+---------------+------------------+ | employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id | increased\_salary | +-------------+-----------+----------+---------+----------+--------+---------------+------------------+ | 198 | Connell | SH\_CLERK | 2600.00 | 2.50 | 124 | 50 | 300 | | 199 | Grant | SH\_CLERK | 2600.00 | 2.20 | 124 | 50 | 300 | | 101 | Koachar | SH\_CLERK | 3400.00 | 1.30 | 118 | 30 | 300 | +-------------+-----------+----------+---------+----------+--------+---------------+------------------+ 3 rows in set (0.00 sec)

17.

mysql> update employee2 set job\_id='GRADE\_A' where salary>=5000; Query OK, 5 rows affected (0.01 sec) Rows matched: 5 Changed: 5 Warnings: 0 mysql> select \* from employee2; +-------------+-----------+----------+---------+----------+--------+---------------+------------------+ | employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id | increased\_salary | +-------------+-----------+----------+---------+----------+--------+---------------+------------------+ | 198 | Connell | SH\_CLERK | 2600.00 | 2.50 | 124 | 50 | 300 | | 199 | Grant | SH\_CLERK | 2600.00 | 2.20 | 124 | 50 | 300 | | 200 | Whalen | AD\_ASST | 4400.00 | 1.30 | 101 | 10 | 300 | | 201 | Harstein | GRADE\_A | 6000.00 | NULL | 100 | 20 | 300 | | 202 | Fay | GRADE\_A | 6500.00 | NULL | 210 | 20 | 300 | | 203 | Mavris | GRADE\_A | 7500.00 | NULL | 101 | 40 | 300 | | 204 | Baer | AD\_PRESS | 3500.00 | 1.50 | 101 | 90 | 300 | | 205 | Higgins | AC\_MGR | 2300.00 | NULL | 101 | 60 | 300 | | 206 | Gitz | GRADE\_A | 5000.00 | NULL | 103 | 60 | 300 | | 100 | King | GRADE\_A | 8956.00 | 0.30 | 108 | 100 | 300 | | 101 | Koachar | SH\_CLERK | 3400.00 | 1.30 | 118 | 30 | 300 | +-------------+-----------+----------+---------+----------+--------+---------------+------------------+ 11 rows in set (0.00 sec)

18. mysql> select \* from employee2 where job\_id='SH\_CLERK' or job\_id='AD\_ASST' or job\_id='IT\_PROG'; +-------------+-----------+----------+---------+----------+--------+---------------+------------------+ | employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id | increased\_salary | +-------------+-----------+----------+---------+----------+--------+---------------+------------------+ | 198 | Connell | SH\_CLERK | 2600.00 | 2.50 | 124 | 50 | 300 | | 199 | Grant | SH\_CLERK | 2600.00 | 2.20 | 124 | 50 | 300 | | 200 | Whalen | AD\_ASST | 4400.00 | 1.30 | 101 | 10 | 300 | | 101 | Koachar | SH\_CLERK | 3400.00 | 1.30 | 118 | 30 | 300 | +-------------+-----------+----------+---------+----------+--------+---------------+------------------+ 4 rows in set (0.00 sec)

19. mysql> select \* from employee2 where job\_id='SH\_CLERK' and salary<3000; +-------------+-----------+----------+---------+----------+--------+---------------+------------------+ | employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id | increased\_salary | +-------------+-----------+----------+---------+----------+--------+---------------+------------------+ | 198 | Connell | SH\_CLERK | 2600.00 | 2.50 | 124 | 50 | 300 | | 199 | Grant | SH\_CLERK | 2600.00 | 2.20 | 124 | 50 | 300 | +-------------+-----------+----------+---------+----------+--------+---------------+------------------+ 2 rows in set (0.00 sec)

20. mysql> select last\_name,mgr\_id from employee2 where mgr\_id=101 and salary>3000; +-----------+--------+ | last\_name | mgr\_id | +-----------+--------+ | Whalen | 101 | | Mavris | 101 | | Baer | 101 | +-----------+--------+ 3 rows in set (0.00 sec)