**SQL Queries**

1) Write a query for the HR department to produce the addresses of all the departments.

Use the LOCATIONS and COUNTRIES tables. Show the location ID, street address,

city, state or province, and country in the output. Run the query



mysql> SELECT location\_id, street\_address, city, state\_province, country\_name

-> FROM locations

-> JOIN countries

-> ON(locations.country\_id=countries.country\_id);

2) The HR department needs a report of employees in Toronto. Display the last name, job,

department number, and department name for all employees who work in Toronto.



mysql> SELECT last\_name, job\_id, employees.department\_id, department\_name

-> FROM employees

-> JOIN departments

-> ON (employees.department\_id=departments.department\_id)

-> JOIN locations

-> ON (departments.location\_id=locations.location\_id)

-> WHERE city = "Toronto";

3) Create a report for HR that displays the last name and salary of every employee who reports to

King.



mysql> SELECT last\_name, salary

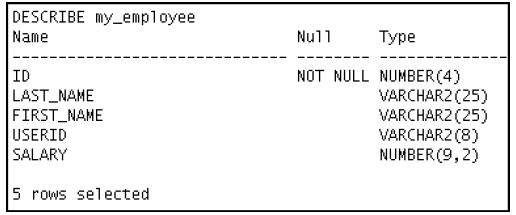
-> FROM employees

-> WHERE manager\_id = (SELECT employee\_id

FROM employees

WHERE last\_name LIKE "King");

4) Create Table MY\_EMPLOYEE. Description is shown below:



CREATE table my\_employees(

emp\_id INT NOT NULL,

last\_name VARCHAR(25),

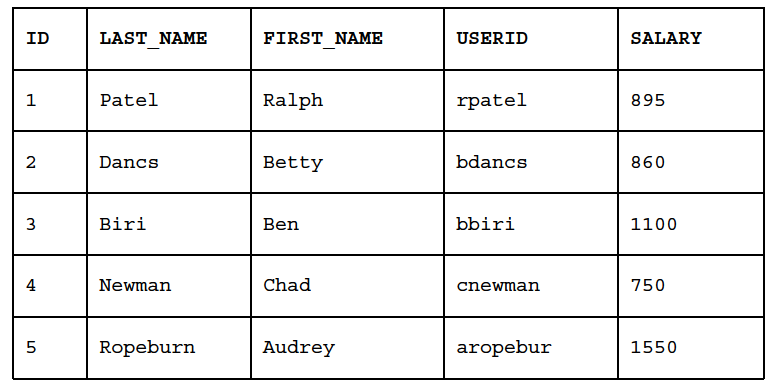
first\_name VARCHAR(25),

user\_id VARCHAR(8),

salary int(9)

);

5) Add the following data to the MY\_EMPLOYEE table



mysql> INSERT INTO my\_employees

-> (emp\_id, last\_name, first\_name, user\_id, salary)

-> VALUES

-> (1,"Patel","Ralph","rpatel",895);

Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO my\_employees

-> (emp\_id, last\_name, first\_name, user\_id, salary)

-> VALUES

-> (2,"Dancs","Betty","bdancs",860);

Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO my\_employees

-> (emp\_id, last\_name, first\_name, user\_id, salary)

-> VALUES

-> (3,"Biri","Ben","bbiri",1100);

Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO my\_employees

-> (emp\_id, last\_name, first\_name, user\_id, salary)

-> VALUES

-> (4,"Newman","Chad","cnewman",750);

mysql> INSERT INTO my\_employees

-> (emp\_id, last\_name, first\_name, user\_id, salary)

-> VALUES

-> (5,"Ropeburn","Audrey","aropebur",1550);

mysql> select \* from my\_employees;

6) Change the last name of employee 3 to Drexler.

mysql> UPDATE my\_employees

-> SET last\_name = "Drexler"

-> WHERE emp\_id = 3;

7) Change the salary to $1,000 for all employees who have a salary less than $900.

mysql> UPDATE my\_employees

-> SET salary = 1000

-> WHERE salary<900;

Query OK, 3 rows affected (0.00 sec)

Rows matched: 3 Changed: 3 Warnings: 0

8) Delete Betty Dancs from the MY\_EMPLOYEE table.

mysql> DELETE FROM my\_employees

-> WHERE emp\_id=2;

Query OK, 1 row affected (0.00 sec)

9) Mark an intermediate point in the processing of the transaction.

mysql> START TRANSACTION;

Query OK, 0 rows affected (0.00 sec)

mysql> SAVEPOINT step\_10;

10) Delete all the rows from the MY\_EMPLOYEE table. Confirm that the table is empty.

mysql> DELETE from my\_employees;

11) Discard the most recent DELETE operation.

mysql> ROLLBACK TO step\_10;

12) Make the data addition permanent.

mysql> COMMIT;

13) The staff in the HR department wants to hide some of the data in the EMPLOYEES table. Create

a view called EMPLOYEES\_VU based on the employee numbers, employee last names, and

department numbers from the EMPLOYEES table. The heading for the employee name should be

EMPLOYEE.

Confirm that the view works. Display the contents of the EMPLOYEES\_VU view

mysql> CREATE VIEW employee\_vu

-> AS SELECT employee\_id, last\_name AS employee, department\_id

-> FROM employees;

Query OK, 0 rows affected (0.02 sec)

mysql> select \* from employee\_vu;