Akshay S. Chavan TEB-15

ASSIGNMENT NO-02

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mysql> select \* from employee;

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

| EMP\_NAME | STREET | CITY |

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

| Aabid | Junkin Street | New York |

| Akshay | Harley Street | New York |

| Ashutosh | RichField Street | Sydney |

| Brad | Harley Street | New York |

| Priyanka | Orchard Road | Singapore |

| Renita | Way Bridge Road | Yorkshire |

| Vin | Junkin Street | New York |

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

7 rows in set (0.01 sec)

mysql> select \* from works;

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

| EMP\_NAME | COMPANY\_NAME | SALARY |

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

| Akshay | Google | 1000000000 |

| Aabid | Apple | 1000000000 |

| Ashutosh | Microsoft | 100000000 |

| Renita | IBM | 100000000 |

| Priyanka | Small Bank Corporation | 20000 |

| Vin | First Bank Corporation | 15000 |

| Brad | Google | 100000000 |

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

7 rows in set (0.00 sec)

mysql> select \* from company;

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

| COMPANY\_NAME | CITY |

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

| Apple | London |

| First Bank Corporation | Singapore |

| Google | New York |

| IBM | Sydney |

| Microsoft | Paris |

| Small Bank Corporation | London |

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

6 rows in set (0.00 sec)

mysql> select \* from manages;

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

| EMP\_NAME | MANAGER\_NAME |

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

| Brad | Akshay |

| Vin | Aabid |

| Priyanka | Ashutosh |

| Renita | Akshay |

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

4 rows in set (0.00 sec)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1.Find the names of all employees who work for First Bank Corporation

mysql> select EMP\_NAME from works where COMPANY\_NAME="First Bank Corporation";

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

| EMP\_NAME |

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

| Vin |

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

1 row in set (0.00 sec)

2.Find the names and cities of residence of all employees who work for First

Bank Corporation

mysql> select w.EMP\_NAME, c.CITY from works w,company c where w.COMPANY\_NAME=c.COMPANY\_NAME;

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

| EMP\_NAME | CITY |

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

| Aabid | London |

| Vin | Singapore |

| Akshay | New York |

| Brad | New York |

| Renita | Sydney |

| Ashutosh | Paris |

| Priyanka | Yorkshire |

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

7 rows in set (0.34 sec)

3.Find the names, street addresses, and cities of residence of all employees

who work for First Bank Corporation and earn more than $10,000

mysql> select e.\* from employee e, works w where e.EMP\_NAME=w.EMP\_NAME and w.COMPANY\_NAME="First Bank Corporation" and w.SALARY>10000;

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

| EMP\_NAME | STREET | CITY |

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

| Vin | Carnbary Street | London |

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

1 row in set (0.00 sec)

4.Find all employees in the database who live in the same cities as the com-

panies for which they work

mysql> select e.EMP\_NAME from employee e,works w, company c where e.CITY=c.CITY and e.EMP\_NAME=w.EMP\_NAME and c.COMPANY\_NAME=w.COMPANY\_NAME;

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

| EMP\_NAME |

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

| Akshay |

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

1 row in set (0.00 sec)

5.Find all employees in the database who live in the same cities and on the

same streets as do their managers

mysql> select distinct e1.EMP\_NAME from employee e1,employee e2, manages m where e1.EMP\_NAME=m.EMP\_NAME and e2.EMP\_NAME=m.MANAGER\_NAME and e1.CITY=e2.CITY and e1.STREET=e2.STREET;

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

| EMP\_NAME |

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

| Brad |

| Vin |

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

2 rows in set (0.00 sec)

6.Find all employees in the database who do not work for First Bank Corpo-

ration

mysql> select w.EMP\_NAME from works w where w.COMPANY\_NAME!="First Bank Corporation"; +----------+

| EMP\_NAME |

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

| Akshay |

| Aabid |

| Ashutosh |

| Renita |

| Priyanka |

| Brad |

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

6 rows in set (0.33 sec)

7.Find all employees in the database who earn more than each employee of

Small Bank Corporation

mysql> select w.EMP\_NAME from works w where w.SALARY> all(select SALARY from works where COMPANY\_NAME="Small Bank Corporation");

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

| EMP\_NAME |

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

| Akshay |

| Aabid |

| Ashutosh |

| Renita |

| Brad |

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

5 rows in set (0.00 sec)

8. Assume that the companies may be located in several cities. Find all com-

panies located in every city in which Small Bank Corporation is located

mysql> select COMPANY\_NAME from company where CITY=all(select CITY from company where COMPANY\_NAME="Small Bank Corporation") and COMPANY\_NAME!="Small Bank Corporation";

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

| COMPANY\_NAME |

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

| Apple |

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

1 row in set (0.00 sec)

9.Find all employees who earn more than the average salary of all employees

of their company

mysql> select w.EMP\_NAME from works w where w.SALARY > (select avg(SALARY) from works w,employee e where w.EMP\_NAME=e.EMP\_NAME);

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

| EMP\_NAME |

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

| Akshay |

| Aabid |

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

2 rows in set (0.00 sec)

10.Find the company that has the most employees

mysql> select COMPANY\_NAME from works group by COMPANY\_NAME having count(EMP\_NAME) >= all(select count(EMP\_NAME) from works group by COMPANY\_NAME);

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

| COMPANY\_NAME |

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

| Google |

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

1 row in set (0.00 sec)

11. Find the company that has the smallest payroll

mysql> select COMPANY\_NAME from works group by COMPANY\_NAME having avg(SALARY)<=all(select avg(SALARY) from works group by COMPANY\_NAME);

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

| COMPANY\_NAME |

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

| First Bank Corporation |

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

1 row in set (0.00 sec)

12. Find those companies whose employees earn a higher salary, on average,

than the average salary at First Bank Corporation

mysql> select COMPANY\_NAME from works group by COMPANY\_NAME having avg(SALARY) > all(select avg(SALARY) from works group by COMPANY\_NAME having COMPANY\_NAME="First Bank Corporation");

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

| COMPANY\_NAME |

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

| Apple |

| Google |

| IBM |

| Microsoft |

| Small Bank Corporation |

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

5 rows in set (0.00 sec)