

DATABASE MANAGEMENT AND SYSTEMS

LAB ASSIGNMENT – 06

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QUESTION -1

```
mysql> select branch_name from account where account_number in (select account_number from depositor natural join customer where customer_city="Pittsfield");
+-----+
| branch_name |
+-----+
| Redwood     |
+-----+
1 row in set (0.00 sec)
```

QUESTION -2

```
mysql> select customer_name,balance from depositor natural join account where depositor.account_number = account.account_number and balance>=700;
+-----+-----+
| customer_name | balance |
+-----+-----+
| Johnson       | 900.00  |
| Smith         | 700.00  |
| Jones         | 750.00  |
| Lindsay       | 700.00  |
+-----+-----+
4 rows in set (0.02 sec)
```

QUESTION -3

```
mysql> select sum(amount) as total_balance from loan join borrower where borrower.loan_number = loan.loan_number and customer_name="smith";
+-----+
| total_balance |
+-----+
| 2900          |
+-----+
1 row in set (0.02 sec)
```

QUESTION -4

```
mysql> select branch_city,count(*) from branch group by branch_city having count(branch_city) >1;
+-----+-----+
| branch_city | count(*) |
+-----+-----+
| Brooklyn   | 2        |
| Horseneck  | 3        |
+-----+-----+
2 rows in set (0.02 sec)
```

QUESTION -5

```
mysql> select customer_name, branch_name, branch_city from depositor natural join account natural join branch where branch_city in ( select branch_city from branch group by branch_city having count(branch_city)>1);
+-----+-----+-----+
| customer_name | branch_name | branch_city |
+-----+-----+-----+
| Johnson      | Downtown   | Brooklyn   |
| Hayes        | Perryridge | Horseneck  |
| Johnson      | Brighton   | Brooklyn   |
| Smith        | Mianus     | Horseneck  |
| Jones        | Brighton   | Brooklyn   |
| Turner       | Round Hill | Horseneck  |
+-----+-----+-----+
6 rows in set (0.01 sec)
```

QUESTION -6

```
mysql> select customer_city, sum(amount) as total_loan from (customer natural left outer join borrower) natural left outer join loan group by customer_city order by total_loan desc;
+-----+-----+
| customer_city | total_loan |
+-----+-----+
| Rye           | 3400       |
| Harrison     | 2500       |
| Pittsfield   | 1300       |
| Princeton    | 1000       |
| Brooklyn     | NULL       |
| Woodside     | NULL       |
| Stamford     | NULL       |
| Palo Alto    | NULL       |
+-----+-----+
8 rows in set (0.00 sec)
```

QUESTION -7

```
mysql> select customer_name, sum(balance) as total_balance from (customer natural left outer join depositor) natural left outer join account group by customer_name;
+-----+-----+
| customer_name | total_balance |
+-----+-----+
| Adams         | NULL         |
| Brooks        | NULL         |
| Curry         | NULL         |
| Glenn         | NULL         |
| Green         | NULL         |
| Hayes         | 400.00       |
| Johnson       | 1400.00      |
| Jones         | 750.00       |
| Lindsay       | 700.00       |
| Smith         | 700.00       |
| Turner        | 350.00       |
| Williams      | NULL         |
+-----+-----+
12 rows in set (0.01 sec)
```

QUESTION -8

```
mysql> select customer_name, sum(amount) as total_loan from (customer natural left outer join borrower) natural left outer join loan group by customer_name;
```

customer_name	total_loan
Adams	1300
Brooks	NULL
Curry	500
Glenn	NULL
Green	NULL
Hayes	1500
Johnson	NULL
Jones	1000
Lindsay	NULL
Smith	2900
Turner	NULL
Williams	1000

```
12 rows in set (0.00 sec)
```

QUESTION -9

```
mysql> create view view2 as select customer_name, account_number, loan_number from ((customer natural left outer join borrower) natural left outer join depositor) natural left outer join account;
```

Query OK, 0 rows affected (0.04 sec)

```
mysql> select * from view2;
```

customer_name	account_number	loan_number
Adams	NULL	L-16
Brooks	NULL	NULL
Curry	NULL	L-93
Glenn	NULL	NULL
Green	NULL	NULL
Hayes	A-102	L-15
Johnson	A-101	NULL
Johnson	A-201	NULL
Jones	A-217	L-17
Lindsay	A-222	NULL
Smith	A-215	L-11
Smith	A-215	L-23
Turner	A-305	NULL
Williams	NULL	L-17

```
14 rows in set (0.01 sec)
```

QUESTION -10

THANK YOU