

SQL Part 1:

Jai Phookan

Fw17_0738

1. Create the following table according to the following information

```
mysql> create table deposit(actno varchar(25),cname varchar(20),bname varchar(20),amount
int,adate date);
```

Query OK, 0 rows affected (0.10 sec)

```
mysql> create table branch(bname varchar(20),city varchar(20));
```

Query OK, 0 rows affected (0.05 sec)

```
mysql> create table customer(cname varchar(20),city varchar(20));
```

Query OK, 0 rows affected (0.05 sec)

```
mysql> create table borrow(loanno varchar(20),cname varchar(20),bname varchar(20),amount
int);
```

Query OK, 0 rows affected (0.06 sec)

2. Describe the tables which are already created.

```
mysql> desc deposit;
```

Field	Type	Null	Key	Default	Extra
actno	varchar(25)	YES		NULL	
cname	varchar(20)	YES		NULL	
bname	varchar(20)	YES		NULL	
amount	int(11)	YES		NULL	
adate	date	YES		NULL	

5 rows in set (0.00 sec)

```
mysql> desc branch;
```

Field	Type	Null	Key	Default	Extra
bname	varchar(20)	YES		NULL	
city	varchar(20)	YES		NULL	

2 rows in set (0.00 sec)

```
mysql> desc customer;
```

```
+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| cname | varchar(20) | YES  |     | NULL    |      |
| city  | varchar(20) | YES  |     | NULL    |      |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> desc borrow;
```

```
+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| loanno | varchar(20) | YES  |     | NULL    |      |
| cname  | varchar(20) | YES  |     | NULL    |      |
| bname  | varchar(20) | YES  |     | NULL    |      |
| amount | int(11)     | YES  |     | NULL    |      |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

3. Insert the data as for the following:

```
mysql> insert into deposit values(101,"sunil","mgroad",5000,"1996-04-01");
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into deposit values(102,"rahul","karolbagh",3500,"1995-11-17");
Query OK, 1 row affected (0.19 sec)
```

```
mysql> insert into deposit values(103,"madhuri","chandni",1200,"1995-12-17");
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into deposit values(104,"pramod","mgroad",3000,"1996-03-27");
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into deposit values(105,"sandip","mgroad",2000,"1996-03-31");
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into branch values("vrce","nagpur");
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into branch values("karolbagh","delhi");
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into branch values("chandni","delhi");
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into branch values("mgroad","bangalore");
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into customer values("anil","calcuta");
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into customer values("rahul","baroda");
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into customer values("madhuri","nagpur");
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into customer values("pramod","nagpur");
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into customer values("sunil","delhi");
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into borrow values(201,"anil","vrce",1000);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into borrow values(206,"rahul","karolbagh",5000);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into borrow values(311,"sunil","mgroad",3000);
Query OK, 1 row affected (0.19 sec)
```

```
mysql> insert into borrow values(321,"madhuri","chandni",2000);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into borrow values(375,"pramod","mgroad",8000);
Query OK, 1 row affected (0.01 sec)
```

4. Retrieve all the records from the table BORROW where amount in between 2000 and 3000.

```
mysql> select * from borrow where amount>=2000 and amount<=3000;
+-----+-----+-----+-----+
| loanno | cname | bname | amount |
+-----+-----+-----+-----+
| 311    | sunil | mgroad | 3000    |
| 321    | madhuri | chandni | 2000    |
```

```
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

5. Retrieve the details from the table DEPOSIT mysql> select * from deposit;

```
+-----+-----+-----+-----+-----+
| actno | cname  | bname   | amount | adate   |
+-----+-----+-----+-----+-----+
| 100   | anil   | vrce    | 1000   | 1995-03-01 |
| 101   | sunil  | mgroad  | 5000   | 1996-04-01 |
| 102   | rahul  | karolbagh | 3500   | 1995-11-17 |
| 103   | madhuri | chandni | 1200   | 1995-12-17 |
| 104   | pramod | mgroad  | 3000   | 1996-03-27 |
| 105   | sandip | mgroad  | 2000   | 1996-03-31 |
+-----+-----+-----+-----+-----+
6 rows in set (0.01 sec)
```

6. Retrieve the customer name, account no of DEPOSIT.
mysql> select actno,cname from deposit;

```
+-----+-----+
| actno | cname |
+-----+-----+
| 100   | anil  |
| 101   | sunil |
| 102   | rahul |
| 103   | madhuri |
| 104   | pramod |
| 105   | sandip |
+-----+-----+
6 rows in set (0.00 sec)
```

7. Retrieve the name of the customer living in NAGPUR.
mysql> select * from customer where city="nagpur";

```
+-----+-----+
| cname | city |
+-----+-----+
| madhuri | nagpur |
| pramod   | nagpur |
+-----+-----+
2 rows in set (0.01 sec)
```

8. Retrieve the name of the customers who opened account after 17-NOV-95.

```
mysql> select cname from deposit where adate>"1995-11-17";
+-----+
```

```

| cname |
+-----+
| sunil |
| madhuri |
| pramod |
| sandip |
+-----+
4 rows in set (0.00 sec)

```

9. Retrieve the account number and amount of the customer having account opened between 01-12-95 and 01-06.96.

```

mysql> select actno,amount from deposit where adate>"1995-12-01" and adate<"1996-06-01";
+-----+-----+
| actno | amount |
+-----+-----+
| 101   | 5000   |
| 103   | 1200   |
| 104   | 3000   |
| 105   | 2000   |
+-----+-----+
4 rows in set (0.00 sec)

```

10. Retrieve all the records from the table DEPOSIT where CNAME begins with C.

```

mysql> SELECT * FROM deposit WHERE cNAME LIKE "s%";
+-----+-----+-----+-----+-----+
| actno | cname | bname | amount | adate |
+-----+-----+-----+-----+-----+
| 101   | sunil | mgroad | 5000   | 1996-04-01 |
| 105   | sandip | mgroad | 2000   | 1996-03-31 |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

```

11. Retrieve all the records from the table BORROW where 2nd character of CNAME is U.

```

mysql> SELECT * FROM deposit WHERE cNAME LIKE "_u%";
+-----+-----+-----+-----+-----+
| actno | cname | bname | amount | adate |
+-----+-----+-----+-----+-----+
| 101   | sunil | mgroad | 5000   | 1996-04-01 |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

```

12. Retrieve all the records from the table DEPOSIT where branch name is CHANDNI or MGROAD.

```
mysql> select * from deposit where bname="chandni" or bname="mgroad";
```

actno	cname	bname	amount	adate
101	sunil	mgroad	5000	1996-04-01
103	madhuri	chandni	1200	1995-12-17
104	pramod	mgroad	3000	1996-03-27
105	sandip	mgroad	2000	1996-03-31

4 rows in set (0.00 sec)

13. Retrieve all the records from the table DEPOSIT where branch name is not CHANDNI or MGROAD.

```
mysql> select * from deposit where bname!="chandni" and bname!="mgroad";
```

actno	cname	bname	amount	adate
100	anil	vrce	1000	1995-03-01
102	rahul	karolbagh	3500	1995-11-17

2 rows in set (0.00 sec)

14. Retrieve all the records from DEPOSIT where amount > 1000 and arrange the customer name in ascending order.

```
mysql> select * from deposit where amount>1000 order by cname;
```

actno	cname	bname	amount	adate
103	madhuri	chandni	1200	1995-12-17
104	pramod	mgroad	3000	1996-03-27
102	rahul	karolbagh	3500	1995-11-17
105	sandip	mgroad	2000	1996-03-31
101	sunil	mgroad	5000	1996-04-01

5 rows in set (0.00 sec)

15. Retrieve all the records from DEPOSIT where amount > 1000 and arrange the customer name in descending order.

```
mysql> select * from deposit where amount>1000 order by cname desc;
```

```

+-----+-----+-----+-----+-----+
| actno | cname  | bname  | amount | adate   |
+-----+-----+-----+-----+
| 101   | sunil  | mgroad | 5000   | 1996-04-01 |
| 105   | sandip | mgroad | 2000   | 1996-03-31 |
| 102   | rahul  | karolbagh | 3500 | 1995-11-17 |
| 104   | pramod | mgroad | 3000   | 1996-03-27 |
| 103   | madhuri | chandni | 1200 | 1995-12-17 |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)

```

16. Retrieve customer details from BORROW table where the third character of the customer name is either 'A' or 'D'.

```

mysql> select * from borrow where cNAME LIKE "__a%" or cNAME LIKE "__d%" ;
+-----+-----+-----+-----+
| loanno | cname  | bname  | amount |
+-----+-----+-----+
| 321    | madhuri | chandni | 2000   |
| 375    | pramod  | mgroad  | 8000   |
+-----+-----+-----+
2 rows in set (0.00 sec)

```

17. Retrieve all the records from the table BORROW where amount is not between 2000 and 8000.

```

mysql> select * from borrow where amount<2000 or amount>8000 ;
+-----+-----+-----+-----+
| loanno | cname  | bname  | amount |
+-----+-----+-----+
| 201    | anil   | vrce   | 1000   |
+-----+-----+-----+
1 row in set (0.00 sec)

```

18. Find out the unique records from the table DEPOSIT

```

mysql> select distinct actno,cname,bname,amount,adate from deposit;
+-----+-----+-----+-----+-----+
| actno | cname  | bname  | amount | adate   |
+-----+-----+-----+-----+
| 100   | anil   | vrce   | 1000   | 1995-03-01 |
| 101   | sunil  | mgroad | 5000   | 1996-04-01 |
| 102   | rahul  | karolbagh | 3500 | 1995-11-17 |
| 103   | madhuri | chandni | 1200 | 1995-12-17 |
| 104   | pramod | mgroad | 3000   | 1996-03-27 |

```

```
| 105 | sandip | mgroad | 2000 | 1996-03-31 |  
+-----+-----+-----+-----+-----+  
6 rows in set (0.00 sec)
```

19. Update the amount of all depositors in deposit table by giving them 10% interest (i.e. $\text{amount} = \text{amount} * 0.1$) where branch is VRCE.

```
mysql> update deposit set amount=amount+amount*0.1 where bname="vrce";  
Query OK, 1 row affected (0.01 sec)  
Rows matched: 1 Changed: 1 Warnings: 0
```

20. Update the amount of all depositors in deposit table by giving them 10% interest where branch is VRCE and customer name ANIL.

```
mysql> update deposit set amount=amount+amount*0.1 where bname="vrce" and  
cname="anil";  
Query OK, 1 row affected (0.01 sec)  
Rows matched: 1 Changed: 1 Warnings: 0
```