Assignment 5

1) Create Database

```
CREATE CUSTOMER TABLE
MySQL> CREATE TABLE CUSTOMER(CUST_ID INT PRIMARY KEY, CUST_NAME
VARCHAR(30) NOT NULL, ADDRESS VARCHAR(20), ACCOUNT_BALANCE INT,
ACCOUNT OPENING DATE DATE);
Query OK, 0 rows affected (0.326 sec)
MySQL> DESC CUSTOMER;
+----+
             | Type | Null | Key | Default | Extra |
+----+
             CUST ID
CUST_NAME
            | varchar(30) | NO | | NULL
ADDRESS
             NULL
ACCOUNT_BALANCE | int(11) | YES |
                               NULL
ACCOUNT_OPENING_DATE | date | YES | NULL
+-----
5 rows in set (0.037 sec)
CREATE BORROW TABLE
MySQL> CREATE TABLE BORROW(LOAN_NO VARCHAR(5) PRIMARY KEY, CUST_ID INT,
BRANCH_ID INT, AMOUNT INT);;
Query OK, 0 rows affected (0.481 sec)
ERROR: No query specified
MySQL> DESC BORROW;
+----+
| Field | Type | Null | Key | Default | Extra |
+----+
| LOAN_NO | varchar(5) | NO | PRI | NULL
| BRANCH_ID | int(11) | YES | NULL
| AMOUNT | int(11) | YES | NULL
+----+
4 rows in set (0.066 sec)
```

2) INSERT 10 RECORDS

```
MySQL> INSERT INTO CUSTOMER VALUES(

1, 'Shreyas', 'Pune', 100000, '2019-07-29'),
(2, 'Anil', 'Akurdi', 500000, '2019-07-30'),
(3, 'Piyush', 'Nagpur', 10000, '2019-07-22'),
(4, 'Aditya', 'Nigdi', 200000, '2019-07-19'),
(5, 'Ankit', 'Mumbai', 25000, '2019-07-21'),
(6, 'Patil', 'Pune', 105000, '2019-06-29'),
(7, 'Yash', 'Pimpri Chinchwa', 90000, '2019-05-29'),
(8, 'Shubham', 'Jalgaon', 30000, '2019-01-29'),
```

```
(9, 'Varun', 'Pune', 1900000, '2018-07-29'),
(10, 'Nilesh', 'Nashik', 1000, '2019-09-29');
Query OK, 10 rows affected (0.127 sec)
Records: 10 Duplicates: 0 Warnings: 0
```

```
MySQL> INSERT INTO BORROW VALUES(
'00111', 1, 1, 100000),
('10111', 2, 2, 150000),
('20111', 3, 3, 10000),
('30111', 4, 9, 5000);
Query OK, 4 rows affected (0.097 sec)
Records: 4 Duplicates: 0 Warnings: 0
```

3) List ID and name:

```
MySQL> SELECT ID, NAME FROM CUSTOMER;
+---+
| ID | NAME
+---+
 1 | Shreyas |
 2 | Anil
 3 | Piyush
  4 | Aditya
  5 | Ankit
  6 | Patil
  7 | Yash
  8 | Shubham |
  9 | Varun
| 10 | Nilesh
+---+
10 rows in set (0.038 sec)
```

4) Display customer name whose amount is greater than 1000.

```
MySQL> SELECT CUST_ID FROM DEPOSIT WHERE AMOUNT > 10000;
+----+
| CUST_ID |
+----+
| Shubham |
+----+
1 row in set (0.002 sec)
```

5) Display opening date of customer whose name is 'Anil'

6) Display customer id whose opening date is after 01/01/2016

```
MySQL> SELECT CUST_ID FROM CUSTOMER WHERE OPEN_DATE > '01/01/2016';
+-----+
| CUST_ID |
+-----+
| Piyush |
| Ankit |
| Aditya |
| Shreyas |
| Patil |
| Yash |
| Shubham |
| Nilesh |
| Anil |
+-----+
9 rows in set, 1 warning (0.002 sec)
```

7) Display customer name whose name starts from 'S'

```
MySQL> SELECT CUST_NAME FROM CUSTOMER WHERE CUST_NAME LIKE 'S%';
+-----+
| CUST_NAME |
+-----+
| Shreyas |
| Shubham |
+----+
2 rows in set (0.002 sec)
```

8) Display name whose length is 5

9) Display Customer ID, Load No., Branch ID from borrow.

```
MySQL> SELECT CUST_ID, LOAN_NO, BRANCH_ID FROM BORROW;
+-----+
| CUST_ID | LOAN_NO | BRANCH_ID |
+----+
| 1 | 00111 | 1 |
| 2 | 10111 | 2 |
| 3 | 20111 | 3 |
| 4 | 30111 | 9 |
+-----+
```

```
4 rows in set (0.002 sec)
```

10) Select Customer name and amount who borrowed money.

stud@stud-OptiPlex-330:~\$ mysql -u root -p

```
Enter password:
Welcome to the MySQL monitor. Commands end with; or \g.
Your MySQL connection id is 3
Server version: 5.7.26-0ubuntu0.16.04.1 (Ubuntu)
Copyright (c) 2000, 2019, Oracle and/or its affiliates. All rights reserved.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> create database SHREYAS;
Query OK, 1 row affected (0.00 sec)
mysql> use SHREYAS;
Database changed
mysql> exit
Bye
stud@stud-OptiPlex-330:~$ mysql -u root -p "root"
Enter password:
ERROR 1049 (42000): Unknown database 'root'
stud@stud-OptiPlex-330:~$ mysql -u root -p
Enter password:
Welcome to the MySQL monitor. Commands end with; or \g.
Your MySQL connection id is 5
Server version: 5.7.26-0ubuntu0.16.04.1 (Ubuntu)
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affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> use SHREYAS;
Database changed
mysql> CREATE TABLE CUSTOMER(CUST ID INT PRIMARY KEY, CUST NAME VARCHAR(30) NOT NULL,
ADDRESS VARCHAR(30), ACCOUNT BALANCE INT, ACCOUNT OPENING DATE DATE);
Query OK, 0 rows affected (0.28 sec)
mysql> DESC CUSTOMER;
+----+
           | Type | Null | Key | Default | Extra |
+-----
CUST NAME
                  | ADDRESS | varchar(30) | YES |
| ACCOUNT_BALANCE | int(11) | YES |
| ACCOUNT_OPENING_DATE | date | YES |
                                           NULL
                                           NULL
                                           NULL
5 rows in set (0.00 sec)
mysql> mysql> INSERT INTO CUSTOMER 1, 'Shreyas', 'Pune', 9990, 2019-05-19);
ERROR 1292 (22007): Incorrect date value: '1995' for column 'ACCOUNT_OPENING_DATE' at row 1
mysql> INSERT INTO CUSTOMER VALUES(1, 'Shreyas', 'Pune', 9990, '2019-05-19');
```

Query OK, 1 row affected (0.05 sec)

```
mysql> INSERT INTO CUSTOMER VALUES(2, 'Piyush', 'Pune', 9990, '2019-06-19');
Query OK, 1 row affected (0.04 sec)
mysql> SELECT * FROM CUSTOMER;
+----+
| CUST_ID | CUST_NAME | ADDRESS | ACCOUNT_BALANCE | ACCOUNT_OPENING_DATE |
+-----
     1 | Shreyas | Pune | 9990 | 2019-05-19
2 | Piyush | Pune | 9990 | 2019-06-19
2 rows in set (0.00 sec)
mysql> UPDATE CUSTOMER SET CUST_NAME='Shreyas Patil' WHERE CUST_NAME LIKE '%Sh%';
Query OK, 2 rows affected (0.04 sec)
Rows matched: 2 Changed: 2 Warnings: 0
mysql> SELECT * FROM CUSTOMER;
+-----
    1 | Shreyas Patil | Pune | 9990 | 2019-05-19
2 | Shreyas Patil | Pune | 9990 | 2019-06-19
2 rows in set (0.00 sec)
mysql> INSERT INTO CUSTOMER(CUST_ID, CUST_NAME, ADDRESS, ACCOUNT_BALANCE,
ACCOUNT OPENING DATE) VALUES(3, 'Jagruti Patil', 'Pune', 10000, '2019-07-29');
Query OK, 1 row affected (0.05 sec)
mysql> INSERT INTO CUSTOMER(CUST_ID, CUST_NAME, ADDRESS, ACCOUNT_BALANCE,
ACCOUNT_OPENING_DATE) VALUES(4, 'Aditya Patil', 'Pune', 15000, '2019-07-30'), (5, 'Ankit
Patil', 'Pune', 20000, '2019-08-01');
Query OK, 2 rows affected (0.05 sec)
Records: 2 Duplicates: 0 Warnings: 0
mysql> SELECT * FROM CUSTOMER;
+-----
     1 | Shreyas Patil | Pune | 9990 | 2019-05-19
2 | Piyush Rajput | Pune | 9990 | 2019-06-19
3 | Jagruti Patil | Pune | 10000 | 2019-07-29
4 | Aditya Patil | Pune | 15000 | 2019-07-30
5 | Ankit Patil | Pune | 20000 | 2019-08-01
    5 rows in set (0.00 sec)
mysql> INSERT INTO CUSTOMER(CUST_ID, CUST_NAME, ADDRESS, ACCOUNT_BALANCE,
ACCOUNT_OPENING_DATE) VALUES(6, 'Piyush Patil', 'Pune', 100000, '2019-07-29');
Query OK, 1 row affected (0.06 sec)
mysql> SELECT * FROM CUSTOMER WHERE ACCOUNT_BALANCE > 50000;
+----+
CUST_ID | CUST_NAME | ADDRESS | ACCOUNT_BALANCE | ACCOUNT_OPENING_DATE |
+-----
    6 | Piyush Patil | Pune | 100000 | 2019-07-29
+----+
1 row in set (0.00 sec)
mysql> UPDATE CUSTOMER SET ACCOUNT_BALANCE = 100000 WHERE CUST_ID BETWEEN 1 AND 2;
Query OK, 2 rows affected (0.04 sec)
```

Rows matched: 2 Changed: 2 Warnings: 0

mysql> SELECT * FROM CUSTOMER WHERE ACCOUNT_BALANCE > 50000;

CUST_ID CUST_NAME	ADDRESS	ACCOUNT_BALANCE	ACCOUNT_OPENING_DATE
1 Shreyas Patil 2 Piyush Rajput 6 Piyush Patil	Pune Pune Pune	100000 100000	2019-05-19 2019-06-19 2019-07-29

3 rows in set (0.00 sec)

mysql> SELECT * FROM CUSTOMER;

+	+	+	+	+
. –	CUST_NAME	•	-	ACCOUNT_OPENING_DATE
1	Shreyas Patil Piyush Rajput	Pune		2019-05-19
3	Jagruti Patil	Pune	10000	2019-07-29
5	Aditya Patil Ankit Patil	Pune	20000	2019-07-30
6 +	Piyush Patil +	Pune +	100000 +	2019-07-29 ++

6 rows in set (0.00 sec)

mysql> SELECT * FROM CUSTOMER WHERE ACCOUNT_BALANCE BETWEEN 10000 AND 100000;

CUST_ID		ADDRESS	ACCOUNT_BALANCE	++ ACCOUNT_OPENING_DATE
	Shreyas Patil			2019-05-19
2	Piyush Rajput	Pune	100000	2019-06-19
3	Jagruti Patil	Pune	10000	2019-07-29
4	Aditya Patil	Pune	15000	2019-07-30
5	Ankit Patil	Pune	20000	2019-08-01
6	Piyush Patil	Pune	100000	2019-07-29
++		+	<u> </u>	++

6 rows in set (0.00 sec)

mysql> SELECT * FROM CUSTOMER WHERE ACCOUNT_BALANCE BETWEEN 20000 AND 100000;

CUST_ID	CUST_NAME	ADDRESS	ACCOUNT_BALANCE	++ ACCOUNT_OPENING_DATE
1 2 5	Shreyas Patil Piyush Rajput Ankit Patil Piyush Patil	Pune Pune Pune	100000 100000 20000	2019-05-19

4 rows in set (0.00 sec)

mysql> SELECT * FROM CUSTOMER WHERE CUST_ID=1 AND CUST_ID=2; Empty set (0.00 sec)

 $\label{eq:mysql} \textit{mysql} \succ \textit{SELECT * FROM CUSTOMER WHERE CUST_ID=1 OR CUST_ID=2;}$

CUST_ID	CUST_NAME	ADDRESS	ACCOUNT_BALANCE	ACCOUNT_OPENING_DATE
1 2	Shreyas Patil Piyush Rajput	Pune Pune	100000 100000	2019-05-19

2 rows in set (0.00 sec)

mysql> SELECT * FROM CUSTOMER WHERE ACCOUNT_BALANCE != 100000;

CUST_ID CUST_NAME	ADDRESS AC	CCOUNT_BALANCE ACCOUNT_	OPENING_DATE
3 Jagruti Pat 4 Aditya Pati 5 Ankit Patil	il Pune	10000 2010 07	29 30

3 rows in set (0.00 sec)

mysql> SELECT CUST_ID, CUST_NAME FROM CUSTOMER;

CUST_ID	CUST_NAME
2 3 4 5	Piyush Rajput
++	+

6 rows in set (0.00 sec)

mysql> UPDATE CUSTOMER SET ACCOUNT_BALANCE=ACCOUNT_BALANCE*10;

Query OK, 6 rows affected (0.05 sec)

Rows matched: 6 Changed: 6 Warnings: 0

mysql> SELECT * FROM CUSTOMER;

_			.	.		_
İ	CUST_ID	CUST_NAME	ADDRESS		ACCOUNT_OPENING_DATE	
+	1 2 3 4 5	Shreyas Patil Piyush Rajput Jagruti Patil Aditya Patil	Pune Pune Pune Pune Pune	1000000 1000000 100000 150000 200000	2019-05-19 2019-06-19 2019-07-29 2019-07-30 2019-08-01 2019-07-29	-
·			L	L	L	·

6 rows in set (0.00 sec)

mysql> UPDATE CUSTOMER SET ACCOUNT_BALANCE=ACCOUNT_BALANCE*50 WHERE CUST_ID=2;
Query OK, 1 row affected (0.05 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> SELECT * FROM CUSTOMER;

+	·		++
CUST_ID CUST_NAME	ADDRESS	ACCOUNT_BALANCE	ACCOUNT_OPENING_DATE
+		+	++
1 Shreyas Patil	Pune	1000000	2019-05-19
2 Piyush Rajput	Pune	5000000	2019-06-19
3 Jagruti Patil	Pune	100000	2019-07-29
4 Aditya Patil	Pune	150000	2019-07-30
5 Ankit Patil	Pune	200000	2019-08-01
6 Piyush Patil	Pune	1000000	2019-07-29
+			++

6 rows in set (0.00 sec)

mysql> UPDATE CUSTOMER SET ACCOUNT_BALANCE=ACCOUNT_BALANCE*5, ADDRESS='Jalgaon' WHERE
CUST_ID=2;

Query OK, 1 row affected (0.06 sec)
Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> SELECT * FROM CUSTOMER;
+-----
```

1 Shreyas Patil Pune 1000000 2019-05-19 2 Piyush Rajput Jalgaon 250000000 2019-06-19 3 Jagruti Patil Pune 100000 2019-07-29 4 Aditya Patil Pune 150000 2019-07-30 5 Ankit Patil Pune 200000 2019-08-01 6 Piyush Patil Pune 1000000 2019-07-29	CUST_ID	CUST_NAME	ADDRESS	•	++ ACCOUNT_OPENING_DATE +
	1 2 3 4 5	Shreyas Patil Piyush Rajput Jagruti Patil Aditya Patil Ankit Patil	Pune Jalgaon Pune Pune Pune	1000000 250000000 100000 150000 200000	2019-05-19

6 rows in set (0.00 sec)

mysql> DELETE FROM CUSTOMER WHERE CUST_ID=5; Query OK, 1 row affected (0.06 sec)

mysql> SELECT * FROM CUSTOMER;

CUST_ID	CUST_NAME	ADDRESS	•	++ ACCOUNT_OPENING_DATE
1 2 3 4	Shreyas Patil Piyush Rajput Jagruti Patil Aditya Patil Piyush Patil	Pune Jalgaon Pune Pune	1000000 250000000 100000 150000	2019-05-19

5 rows in set (0.00 sec)

mysql> SELECT * FROM CUSTOMER WHERE CUST_NAME LIKE 'a%';

CUST	_ID	CUST_NAME	ADDRESS	ACCOUNT_BALANCE	++ ACCOUNT_OPENING_DATE
İ	4	Aditya Patil	Pune	150000	2019-07-30

1 row in set (0.00 sec)

mysql> SELECT * FROM CUSTOMER WHERE CUST_NAME LIKE 'p%';

CUST_ID	CUST_NAME	ADDRESS	ACCOUNT_BALANCE	ACCOUNT_OPENING_DATE
2	Piyush Rajput Piyush Patil	Jalgaon	250000000	2019-06-19 2019-07-29

2 rows in set (0.00 sec)

mysql> SELECT * FROM CUSTOMER WHERE CUST_NAME LIKE '%p%';

	CUST_ID	CUST_NAME	ADDRESS	ACCOUNT_BALANCE	ACCOUNT_OPENING_DATE	
	2 3 4	Shreyas Patil Piyush Rajput Jagruti Patil Aditya Patil Piyush Patil	Jalgaon Pune Pune	250000000 100000 150000	2019-05-19 2019-06-19 2019-07-29 2019-07-30 2019-07-29	+

5 rows in set (0.00 sec)

mysql> SELECT * FROM CUSTOMER WHERE CUST_NAME LIKE '%ru%';

4	+		+	+	+	Ł
	. – .	_	•	_	ACCOUNT_OPENING_DATE +	•
		Jagruti Patil		•	2019-07-29	

```
1 row in set (0.00 sec)
mysql> SELECT * FROM CUSTOMER WHERE CUST NAME LIKE ' a%';
+-----
| 3 | Jagruti Patil | Pune | 100000 | 2019-07-29
+----+
1 row in set (0.00 sec)
mysql> SELECT * FROM CUSTOMER WHERE CUST_NAME LIKE '_i%';
+----+
+----+
  2 | Piyush Rajput | Jalgaon | 250000000 | 2019-06-19
6 | Piyush Patil | Pune | 1000000 | 2019-07-29
+-----
2 rows in set (0.00 sec)
mysql> SELECT * FROM CUSTOMER WHERE CUST NAME LIKE '%a';
Empty set (0.00 sec)
mysql> SELECT * FROM CUSTOMER WHERE CUST NAME LIKE '%1';
+----+
1 | Shreyas Patil | Pune | 1000000 | 2019-05-19
3 | Jagruti Patil | Pune | 100000 | 2019-07-29
4 | Aditya Patil | Pune | 150000 | 2019-07-30
6 | Piyush Patil | Pune | 1000000 | 2019-07-29
4 rows in set (0.00 sec)
mysql> SELECT * FROM CUSTOMER WHERE CUST_NAME LIKE '%yas%';
+----+
| 1 | Shreyas Patil | Pune | 1000000 | 2019-05-19
+----+
1 row in set (0.00 sec)
mysql> SELECT * FROM CUSTOMER WHERE CUST_NAME LIKE 'a%' AND length(cust_name);
+----+
| CUST_ID | CUST_NAME | ADDRESS | ACCOUNT_BALANCE | ACCOUNT_OPENING_DATE |
+-----
 4 | Aditya Patil | Pune | 150000 | 2019-07-30
+----+
1 row in set (0.00 sec)
mysql> SELECT * FROM CUSTOMER WHERE CUST_NAME LIKE 'a_%_%';
+----+
+----+
| 4 | Aditya Patil | Pune | 150000 | 2019-07-30
+-----
1 row in set (0.00 sec)
mysql> SELECT * FROM CUSTOMER WHERE CUST_NAME LIKE 'a%o';
Empty set (0.00 sec)
```