ASSIGNMENT 1:

mysql> create database stud;

Database changed

mysql> create table branch(branch\_name varchar(10) primary key,branch\_city varchar(10),assests

integer(10));

Query OK, 0 rows affected (0.27 sec)

mysql> insert into branch values('akurdi','pune',1000);

Query OK, 1 row affected (0.03 sec)

mysql> insert into branch(branch\_name,branch\_city,assests) values

('nigdi','pune',2000),('pimpri,'pune',5000);

Query OK, 2 rows affected (0.05 sec) Records: 2 Duplicates: 0 Warnings: 0

mysql> select \* from branch;

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

| branch\_name | branch\_city | assests |

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

| akurdi | pune | 1000 |

| nigdi | pune | 2000 |

| pimpri | pune | 5000|

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

rows in set (0.00 sec)

mysql> select \* from acc;

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

| acc\_no | branch\_name | amount |

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

| 1 | akurdi | 50000 |

| 2 | Pune| 35000 |

| 3 | nigdi | 15000 |

| 4 | nigdi | 6300 |

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

rows in set (0.00 sec)

mysql> select \* from cust;

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

| cust\_name | cust\_street | cust\_city |

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

| Siddhesh | link\_road | pune |

| Sagar | clg\_road| pune |

| Kalpesh| likw | mumbai |

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

rows in set (0.00 sec)

mysql> select \* from loan;

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

| loan\_no | branch\_name | amount |

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

|108 | Pimpri| 25000|

| 101| akurdi | 1000|

| 110| Pune | 50000 |

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

3 rows in set (0.00 sec)

mysql> select \* from deposit;

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

| cust\_name | acc\_no |

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

| Siddhesh | 101|

| Harshal| 102 |

| Sangram| 108 |

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

rows in set (0.00 sec)

mysql> select \* from borrower;

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

| cust\_name | loan\_no |

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

| Siddhesh | 101 |

| Nikhil | 108 |

| Rohit | 110 |

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

rows in set (0.00 sec)

Q1. Find the names of all branches in loan relation.

mysql> select branch\_name from loan group by branch\_name;

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

| branch\_name |

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

| akurdi |

| nigdi |

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

2 rows in set (0.01 sec)

Q2. Find all loan numbers for loans made at Akurdi Branch with loan amount

> 12000.

mysql> select loan\_no from loan where branch\_name='akurdi' and amount>12000;

+---------+

| loan\_no |

+---------+

| 108 |

| 109 |

+---------+

rows in set (0.00 sec)

Q3. Find all customers who have a loan from bank. Find their names,loan\_no and loan

amount.

mysql> select b.cust\_name,l.loan\_no,l.amount from loan l inner join borrower b on l.loan\_no=b.loan\_no;

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

| cust\_name | loan\_no | amount |

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

| Siddhesh | 101 | 1000 |

| Sangram | 108 | 25000 |

| Rohit | 110 | 50000 |

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

rows in set (0.00 sec)

Q4. List all customers in alphabetical order who have loan from Akurdi branch.

mysql> select b.cust\_name,l.loan\_no,l.amount from loan l inner join borrower b on l.loan\_no=b.loan\_no

where l.branch\_name='akurdi' order by b.cust\_name;

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

| cust\_name | loan\_no | amount |

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

| Siddhesh | 101| 1000 |

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

1 rows in set (0.00 sec)

Q5. Find all customers who have an account or loan or both at bank.

mysql> select acc\_no from acc union select loan\_no from loan;

+--------+

| acc\_no |

+--------+

| 101 |

| 102 |

| 104 |

| 108 |

| 110 |

+--------+

5 rows in set (0.00 sec)

Q6. Find all customers who have both account and loan at bank. mysql> select

distinct a.acc\_no from acc a inner join loan l on l.loan\_no=a.acc\_no;

+--------+

| acc\_no |

+--------+

| 101 |

| 104 |

+--------+

2 rows in set (0.00 sec)Q7. Find all customer who have account but no loan at the bank.

mysql> select acc\_no from acc where acc\_no not in(select loan\_no from loan);

+--------+

| acc\_no |

+--------+

| 101 |

| 102 |

+--------+

2 rows in set (0.01 sec)

Q8. Find average account balance at Akurdi branch.

mysql> select avg(amount) from acc where branch\_name='akurdi';

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

| avg(amount) |

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

| 35000|

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

1 row in set (0.00 sec)

Q9. Find the average account balance at each branch

mysql> select branch\_name,avg(amount)"avg\_bal" from acc group by branch\_name;

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

| branch\_name | avg\_bal |

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

| akurdi | 50000|

| pune| 35000 |

|nigdi| 10500 |

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

3 rows in set (0.00 sec)

Q10. Find no. of depositors at each branch.

mysql> select a.branch\_name,count(a.acc\_no) from acc a inner join depositor d on d.acc\_no=a.acc\_no group

by a.branch\_name;

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

| branch\_name | count(a.acc\_no) |

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

| akurdi | 101 |+-------------+-----------------+

1 row in set (0.00 sec)

Q11. Find the branches where average account balance > 12000.

mysql> select avg(amount)"avg\_bal>12000",branch\_name from acc group by branch\_name having

avg(amount)>12000;

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

| avg\_bal>12000 | branch\_name |

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

| 15000.0000 | nigdi |

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

1 row in set (0.00 sec)

Q12. Find number of tuples in customer relation.

mysql> select count(\*)"no\_of\_tuples" from cust;

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

| no\_of\_tuples |

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

| 5|

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

1 row in set (0.00 sec)

Q13. Calculate total loan amount given by bank.

mysql> select sum(amount)"total\_loan" from loan;

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

| total\_loan |

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

| 76000 |

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

1 row in set (0.00 sec)

Q14. Delete all loans with loan amount between 1300 and 1500. mysql> delete

from loan where amount between 13000 and 15000; Query OK, 3 rows affected

(0.10 sec)

Q15. Delete all tuples at every branch located in Nigdi. mysql> delete from

branch where branch\_name='nigdi'; Query OK, 1 row affected (0.17 sec)Create synonym

for customer table as cust.

mysql> create public synonym cust for cust;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your

MySQL server version for the right syntax to use near 'public synonym cust for customer' at line 1

Create sequence roll\_seq and use in student table for roll\_nocolumn.

//you cannnot create sequence in mysql.

mysql> create table stud1(roll\_no int(4) auto\_increment primary key,name varchar(10));

Query OK, 0 rows affected (0.06 sec)

mysql> select \* from stud1;

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

| roll\_no | name |

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

| 1 | abc |

| 2 | xyz|

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

2 rows in set (0.00 sec)