Q1) **Give all info for a customer (Customer ID, Name, Gender, No of loans taken, No of deposits, Street Name, City and Branch Name) in the same order as mentioned sorted by Customer ID.**

```
SELECT T4.CUST_ID, T4.NAME, T4.GENDER, T4.NO_OF_LOANS, T4.NO_DEPOSITS,
T4.STREET, T4.CITY, BRANCH.BRN_NAME FROM BRANCH RIGHT JOIN (SELECT *
FROM (SELECT CUST_ID, COUNT(*) AS NO_OF_LOANS FROM BORROWER GROUP
BY CUST_ID) AS T2 NATURAL JOIN (SELECT C_ID AS CUST_ID, NAME, STREET, CITY,
GENDER, NO_DEPOSITS FROM CUSTOMER LEFT JOIN (SELECT CUST_ID, COUNT(*)
AS NO_DEPOSITS FROM DEPOSITOR GROUP BY CUST_ID) AS T1 ON
C_ID=CUST_ID) AS T3) AS T4 ON BRANCH.CITY = T4.CITY ORDER BY T4.CUST_ID;
+---------+----------+--------+-------------+-------------+------------+--------------+------------+
| CUST_ID | NAME     | GENDER | NO_OF_LOANS | NO_DEPOSITS | STREET     | CITY
| BRN_NAME   |
+---------+----------+--------+-------------+-------------+------------+--------------+------------+
| c1      | haritha  | f      |           3 |           4 | nalanda    | machlipatnam | NULL       |
| c2      | himani   | f      |           2 |           3 | nalanda    | machlipatnam | NULL       |
| c3      | shankar  | m      |           1 |           3 | kadamba    | eluru        | zone3      |
| c4      | saritha  | f      |           1 |           2 | kadamba    | eluru        | zone3      |
| c5      | sachitra | f      |           3 |           1 | saraswathi | nandigama    | NULL       |
| c6      | yogitha  | f      |           1 |           1 | kaveri     | hyderabad    | headoffice |
| c7      | radhika  | f      |           1 |        NULL | kaveri     | hyderabad    | headoffice |
| c8      | ramu     | m      |           2 |        NULL | azad       | Vijayawada   | zone1      |
+---------+----------+--------+-------------+-------------+------------+--------------+------------+

8 rows in set (0.00 sec)
```

Q2) Update the customer street information in a new table called CUSTOMER_COPY to 'NH17B' for the
customers who have made payments of more than 10000 for ALL of their loans.
Instruction:
First create a CUSTOMER_COPY table using the following query:
mysql>

```
DROP TABLE IF EXISTS `CUSTOMER_COPY`;

CREATE TABLE `CUSTOMER_COPY` (
  `C_ID` char(5) NOT NULL,
  `NAME` varchar(30) DEFAULT NULL,
  `STREET` varchar(25) DEFAULT NULL,
  `CITY` varchar(30) DEFAULT NULL,
  `GENDER` enum('f','m') DEFAULT NULL,
  UNIQUE KEY `C_ID` (`C_ID`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

```
LOCK TABLES `CUSTOMER_COPY` WRITE;

INSERT INTO `CUSTOMER_COPY` VALUES
('c1','haritha','nalanda','machlipatnam','f'),('c2','himani','nalanda','machlipatnam','f'),('c3','shan
kar','kadamba','eluru','m'),('c4','saritha','kadamba','eluru','f'),('c5','sachitra','saraswathi','nandig
ama','f'),('c6','yogitha','kaveri','hyderabad','f'),('c7','radhika','kaveri','hyderabad','f'),('c8','ramu','
azad','Vijayawada','m');

UNLOCK TABLES;

UPDATE CUSTOMER_COPY SET STREET='NH17B' WHERE NAME IN (SELECT
DISTINCT C.NAME
FROM CUSTOMER C JOIN (SELECT SUM(P.AMOUNT) AS SUM,B.CUST_ID AS C_ID
FROM BORROWER B
JOIN PAYMENT P ON P.L_NO = B.LOAN_NO GROUP BY B.CUST_ID HAVING SUM >=
10000) R ON
R.C_ID = C.C_ID);

SELECT * FROM CUSTOMER_COPY;
+------+----------+-----------+-------------+--------+
| C_ID | NAME     | STREET    | CITY        | GENDER |
+------+----------+-----------+-------------+--------+
| c1   | haritha  | NH17B     | machlipatnam | f      |
| c2   | himani   | NH17B     | machlipatnam | f      |
| c3   | shankar  | kadamba   | eluru       | m      |
| c4   | saritha  | kadamba   | eluru       | f      |
| c5   | sachitra | saraswathi | nandigama  | f      |
| c6   | yogitha  | kaveri    | hyderabad   | f      |
| c7   | radhika  | kaveri    | hyderabad   | f      |
| c8   | ramu     | azad      | Vijayawada  | m      |
+------+----------+-----------+-------------+--------+
8 rows in set (0.00 sec)
```

Q3) **Find the (payment number, loan number, amount) groups corresponding to the payments made by those customers living in a city offering “mobilebanking" OR "netbanking".**

```
select P_NO, L_NO, AMOUNT from PAYMENT left join (select distinct LOAN_NO from
BORROWER left join (select C_ID from CUSTOMER NATURAL JOIN (select distinct CITY
from (select * from BRANCH left join ASSETS on FACILITIES in
('mobilebanking','netbanking') and BRANCH.BRN_NAME=ASSETS.BR_NAME) as T1
where BR_NAME is not NULL) as t2) as t3 on C_ID=CUST_ID where C_ID is NOT NULL)
as t4 on LOAN_NO=L_NO where LOAN_NO is not NULL ;
+------+------+--------+
| P_NO | L_NO | AMOUNT |
+------+------+--------+
| p1   | hou2 |   5000 |
```

```
+------+------+--------+


+------+
1 row in set (0.00 sec)
```

Q4) **Print out name, loan number, and remaining amount for all house loans taken by females for which atleast one payment has been made.**

```
SELECT T3.NAME, P.L_NO, (T3.AMOUNT-P.AMOUNT) AS REMAINING_AMOUNT FROM
(SELECT L_NO, SUM(AMOUNT) AS AMOUNT FROM PAYMENT GROUP BY L_NO) AS P
INNER JOIN (SELECT L.LN_NO, L.AMOUNT, T2.NAME FROM LOAN L INNER JOIN
(SELECT T1.C_ID, B.LOAN_NO, T1.NAME, T1.CITY FROM BORROWER B INNER JOIN
(select C_ID, NAME, CITY from CUSTOMER WHERE GENDER = 'F') AS T1 ON T1.C_ID =
B.CUST_ID) as T2 ON L.LN_NO = T2.LOAN_NO WHERE L.LN_NO LIKE "hou%") AS T3
ON T3.LN_NO = P.L_NO;
+---------+------+---------------------+
| NAME    | L_NO | (T3.AMOUNT-P.AMOUNT) |
+---------+------+---------------------+
| himani  | hou1 |             1990000 |
| saritha | hou2 |             3995000 |
+---------+------+---------------------+
2 rows in set (0.00 sec)
```