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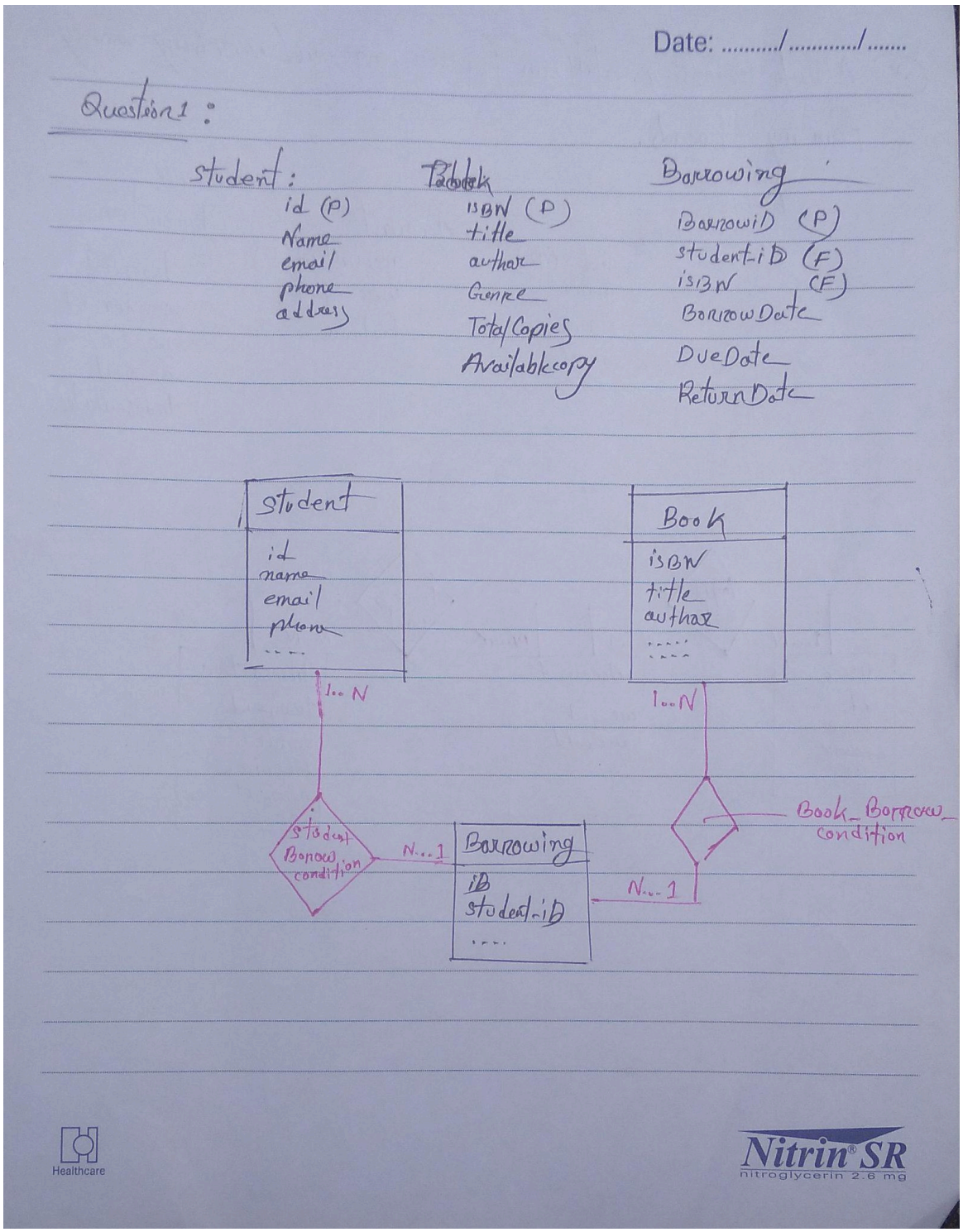
1 Question :



2 Question :

```
INSERT INTO borrowing (studentID,ISBN,BorrowDate,DueDate,ReturnDate)
VALUES  (3,
            (SELECT ISBN as collected
              ROM book
              WHERE AvailableCopies = (SELECT MAX(AvailableCopies) FROM book)
              LIMIT 1),
           CURRENT_DATE(),
           DATE_ADD(CURRENT_DATE(), INTERVAL 7 DAY),
           DATE_ADD(CURRENT_DATE(), INTERVAL 10 DAY)
);
```

3 Question :

```
SET SQL_SAFE_UPDATES = 0;
UPDATE book
SET availableCopies = availablecopies - 1
WHERE ISBN = '9781234567890';
SET SQL_SAFE_UPDATES = 1;

SELECT * FROM final.book;
```

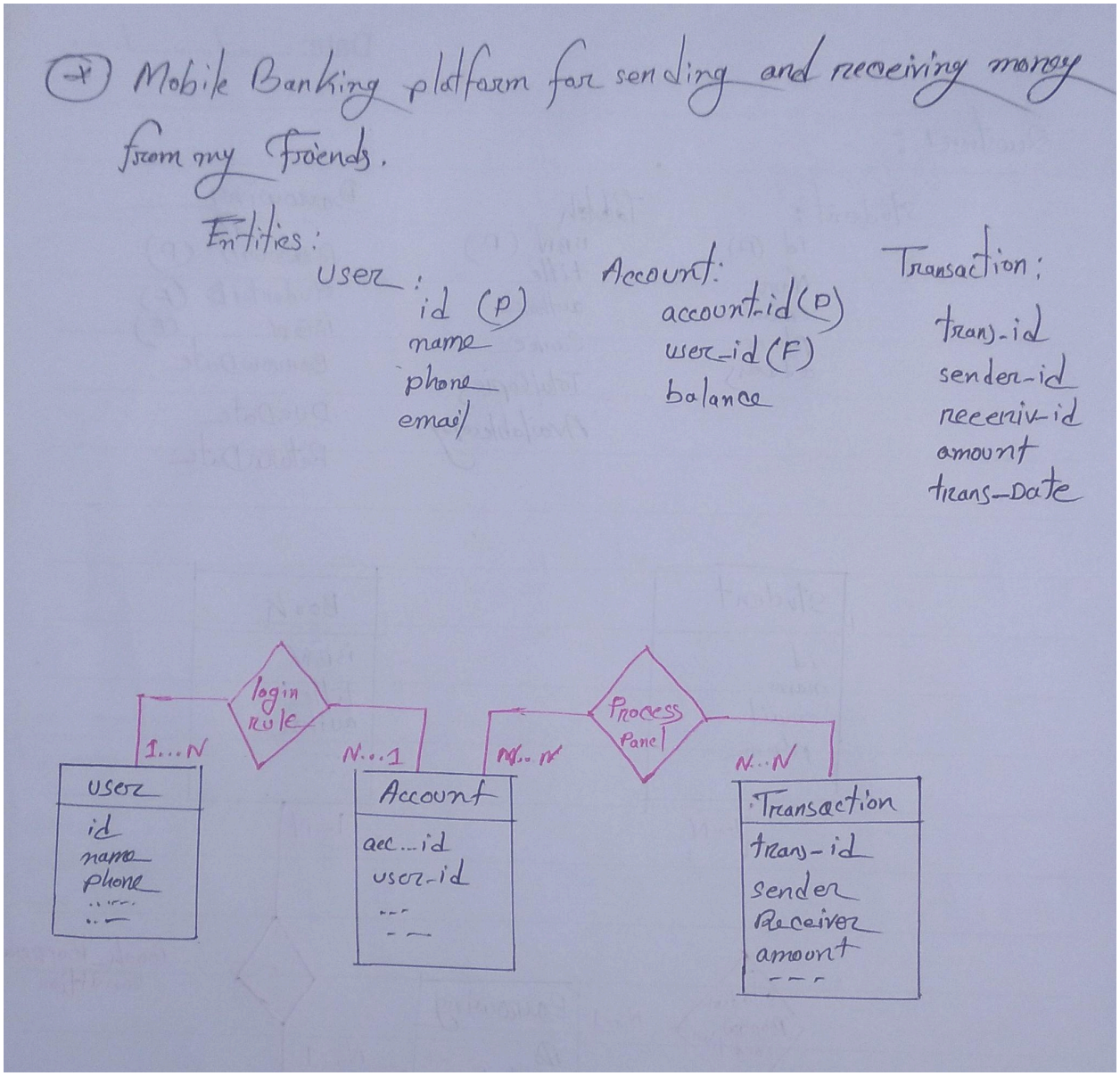
4 Question :

```
SELECT S.name
FROM borrowing  AS B
JOIN Student AS S
ON B.studentid = S.studentid
GROUP BY B.studentid
HAVING COUNT(B.studentid) = (
                SELECT MAX(count)
                FROM
                (
                        SELECT C.studentID, count(C.studentid) AS count
                        FROM borrowing  AS C
                        GROUP BY C.studentid
                ) AS borrow_count
);
```

5 Question :

```
SELECT BOR.ISBN , book.title,book.author , returndate - CURRENT_DATE() AS overed
FROM BORROWING AS BOR
JOIN book
ON book.ISBN = BOR.ISBN
WHERE returndate - CURRENT_DATE() > 0
```

6 Question :



7 Question :

```
WITH MINI1 AS
(
        SELECT MIN (SALARY) MINI1_SHELL
        FROM EMPLOYEES
),
MINI2 AS
(
        SELECT MIN(SALARY) MINI2_SHELL
        FROM EMPLOYEES
        WHERE SALARY > ( SELECT MINI1_SHELL FROM MINI1)
)
SELECT name
FROM EMPLOYEES
WHERE SALARY = ( SELECT MINI2_SHELL  FROM MINI2);
```

8 Question :

Union : Its combine two table and remove any duplicate row from the result table

```
        Code:
        SELECT id FROM table2
        UNION
        SELECT id FROM table1;
```

Union All : its same of union operation but it not remove duplicate rows from result table

```
        Code:
        SELECT id FROM table2
        UNION ALL
        SELECT id FROM table1;
```

9 Question :

```
CREATE TABLE Employee
(
   ID INT PRIMARY KEY,1
   Name VARCHAR(40),
   Department_ID INT,
   FOREIGN KEY (Department_ID) REFERENCES Department(Department_id) ON DELETE
   SET NULL
);
```

```
CREATE TABLE JobHistory (
   Job_ID INT PRIMARY KEY,
   Employee_ID INT,
   Job_title VARCHAR(50),
   Start_date DATE,
   End_date DATE,
   FOREIGN KEY (Employee_id) REFERENCES Employee(ID) ON DELETE CASCADE
);

CREATE TABLE Department
(
   department_id INT PRIMARY KEY,
   Name VARCHAR(30)
);
```

10 Question :

In mySQL course i learn many topic ,here was interesting JOIN operation, it combine two or more tables , and its operation sort some queries, use JOIN query is sort then use subquery, thats why it interesting of me, and here included some more operation
LEFT JOIN , RIGHT JOIN, CORSS JOIN, its so cool,