



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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Experiment 7

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Semester: 5th
Subject Name: DBMS

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Section/Group: KRG-1-B
Date of Performance: 21th Oct
Subject Code: 23CSP-333

1. Problem Title: Transactions

2. Code and Output:

```
SELECT *FROM STUDENT;
```

```
--TRANSACTION: SET OF STATEMENTS RUNNING - CREATE,  
UPDATE, DELETE ETC
```

```
--STATEMENT  
--TRANSACTION: IMPLICIT TRANSACTION  
UPDATE STUDENT  
SET NAME = 'XYZ'  
WHERE ID = 1;
```

```
--EXPLICIT TRANSACTION: USER HAS THE CONTROL  
BEGIN TRANSACTION
```

```
UPDATE STUDENT
```

```
SET NAME = 'AMAN'
```

```
WHERE ID = 1;
```



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COMMIT

--IF A TRANSACTION HAS BEEN INITIATED -> MUST BE EITHER COMMITED (PERMANENT SAVE), ROLLED BACK (UNDO)



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Output:

```
CREATE TABLE
INSERT 0 1
INSERT 0 1
id |      name
---+-----
 1 | Initial Name
 2 | Jane Doe
(2 rows)
```

```
UPDATE 1
BEGIN
UPDATE 1
COMMIT
id |      name
---+-----
 2 | Jane Doe
 1 | AMAN
(2 rows)
```

```
BEGIN
UPDATE 1
ROLLBACK
id |      name
---+-----
 2 | Jane Doe
 1 | AMAN
(2 rows)
```