



Experiment 7

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Branch: BE CSE

Semester: 5th

Subject Name: DBMS

UID: 23BCS10712

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 STATMENTS 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
COMMITTED (PERMANENT SAVE), ROLLED BACK (UNDO)

Output:

```
CREATE TABLE
```

```
INSERT Ø 1
```

```
INSERT Ø 1
```

id	name
----	------

1	Initial Name
---	--------------

2	Jane Doe
---	----------

2	Jane Doe
---	----------

(2 rows)

```
UPDATE 1
```

```
BEGIN
```

```
UPDATE 1
```

```
COMMIT
```

id	name
----	------

2	Jane Doe
---	----------

2	Jane Doe
---	----------

1	AMAN
---	------

(2 rows)

```
BEGIN
```

```
UPDATE 1
```

```
ROLLBACK
```

id	name
----	------

2	Jane Doe
---	----------

2	Jane Doe
---	----------

1	AMAN
---	------

(2 rows)