Name: TALHA MAHMOOD

Reg # :128984

Class:BESE-6B

**Github repository link:** https://github.com/Talha345/lab8\_SC.git

**Source Code for stored procedure:**

**public** **static** **void** stored(){

**long** startTime = System.*nanoTime*();

**try**{

Class.*forName*("com.mysql.jdbc.Driver");

Connection con = DriverManager.*getConnection*(

"jdbc:mysql://localhost:3306/lab8","root","");

String simpleProc = "{ call my\_fun1() }";

CallableStatement cs = con.prepareCall(simpleProc);

cs.execute();

}

**catch**(Exception e)

{

System.***out***.println(e);

}

**long** endTime = System.*nanoTime*();

**long** Time = endTime-startTime;

System.***out***.println(Time);

}

**Stored procedures:**

**Autocommit=on**

CREATE DEFINER=`root`@`localhost` PROCEDURE `my\_fun`()

BEGIN

declare v\_max int unsigned default 5000;

declare i int unsigned default 0;

truncate table student3;

while i < v\_max do

insert into student3 values ( default,CONCAT('talha', i) , '1');

set i=i+1;

end while;

END

**Autocommit=off**

**CREATE DEFINER=`root`@`localhost` PROCEDURE `my\_fun1`()**

**BEGIN**

**declare v\_max int unsigned default 5000;**

**declare i int unsigned default 0;**

**truncate table student3;**

**Start transaction;**

**while i < v\_max do**

**insert into student3 values ( default, CONCAT('talha', i), '1');**

**set i=i+1;**

**end while;**

**commit;**

**END**

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| --- | --- | --- |
| **TYPE OF METHOD** | **TIME OF EXECUTION WITH AUTOCOMMIT** | **TIME OF EXECUTION WITHOUT AUTOCOMMIT** |
| Statement Method | 209156012627ms | 2330650246ms |
| Prepared Statement Method | 299044606494ms | 4415583243ms |
| Batch Update Method | 2167265241ms | 419876589ms |
| Stored Procedures | 233862783238ms | 2708142861ms |

**Data SQL:**

