Read Me

Project2 Advance

Course : COSC6340

Name: Database Systems

Topic: OLTP for an Airline Database

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Team5 Information

Member1:

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Member2

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* **Executing the program:**

To execute the program use the below command:

Format : [python command] [python file] [no of Threads] [Seconds] [no Of Attempts(default=1)]

>> [team5@program ~]$ python3.6 oltp\_airline.py 10 10

Here the program assume number of attempts as 1.

>> [team5@program ~]$ python3.6 oltp\_airline.py 10 10 2

Here number of attempts as 2.

* **Connection string file:**

The program connects to PostGreSQL database, the configuration file is in the submitted directory with the name “connectionstring.txt”

|  |
| --- |
| host=/tmp/,user=team5,passwd=team5,dbname=team5 |

Replace the values in this file to work with new Database.

* **Locking Implementation:**

The program implements row level locking. The locking is removed via commit or rollback.

First lock on FlightInstance table

|  |
| --- |
| flightInstanceQuery=**"select "**+str(seatClass)+**" from flightinstance where flightTripId="**+str(flightTripId[0])+**" and "**+str(seatClass)+**">1 for update;"** |

Second lock in the Final table

|  |
| --- |
| finalQuery=**"select** *\** **from final where flightTripid="**+str(flightTripId[0])+**" for update;"** |

* **Updates in Transaction:**

The program is designed to update the below tables as part of Transaction:

1. Ticket
2. CustomerTrip
3. FlightInstance
4. Final