Transactions HW

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| Update window | Transaction 1 | Transaction 2 | Transaction 3 | Transaction 4 | Result |
| Create the three tables, and perform inserts into all three. |  |  |  |  | The three tables are created and have data. |
| SHOW VARIABLES like '%isolation%'; |  |  |  |  |  |
| SET AUTOCOMMIT=0; | SET AUTOCOMMIT=0; | SET AUTOCOMMIT=0; | SET AUTOCOMMIT=0; | SET AUTOCOMMIT=0; | This turns off the autocommit so that you have control of when one transaction ends and the next begins in each of your consoles. |
|  | Use DataGrip to set session transaction isolation level to read-committed. | Use DataGrip to set session transaction isolation level to repeatable read. | Use DataGrip to set session transaction isolation level to serializable. | Use DataGrip to set session transaction isolation level to read-uncommitted. | Each console is using a different isolation level. |
| Insert a fresh set of rows, for David Banner. |  |  |  |  | Scores table now includes David Banner. |
|  | Run the select to get the average % for each assessment |  |  |  | David Banner's average is null. |
|  |  | Run the select to get the average % for each assessment |  |  | David Banner's average is null. |
|  |  |  | Run the select to get the average % for each assessment |  | Timed out. |
|  |  |  |  | Run the select to get the average % for each assessment | David Banner’s average is 66.8. |
| Rollback; |  |  |  |  | Removes David Banner’s score from the scores table. |
|  | Run the select to get the average % for each assessment | Run the select to get the average % for each assessment | Run the select to get the average % for each assessment | Run the select to get the average % for each assessment | David Banner’s average is null in all consoles. |
| Update the Tony Stark rows to add 2 to each score. |  |  |  |  | Timed out. |
|  | COMMIT; | COMMIT; | COMMIT; | COMMIT; |  |
| Update the Tony Stark rows to add 2 to each score. |  |  |  |  | Tony Stark row is updated in the scores table. |
|  | Run the select to get the average % for each assessment | Run the select to get the average % for each assessment |  |  | Tony Stark’s average remains at 66.8. |
|  |  |  | Run the select to get the average % for each assessment |  | Timed out. |
|  |  |  |  | Run the select to get the average % for each assessment | Tony Stark’s average is now 76.8. |
| SAVEPOINT grease; |  |  |  |  | Savepoint is created to save any work up to this point. |
| Update just Tony Stark’s final grade to be what it was – 20. |  |  |  |  | Tony Stark row is updated in the scores table. |
|  | Run the select to get the average % for each assessment | Run the select to get the average % for each assessment |  |  | Tony Stark’s average remains at 66.8. |
|  |  |  | Run the select to get the average % for each assessment |  | Timed out. |
|  |  |  |  | Run the select to get the average % for each assessment | Tony Stark’s average is now 72.80000000000001. |
| ROLLBACK WORK TO SAVEPOINT grease; |  |  |  |  | Rolls back to the savepoint that was created earlier, essentially erasing the final grade - 20 change. |
|  | Run the select to get the average % for each assessment | Run the select to get the average % for each assessment |  |  | Tony Stark’s average remains at 66.8. |
|  |  |  | Run the select to get the average % for each assessment |  | Timed out. |
|  |  |  |  | Run the select to get the average % for each assessment | Tony Stark’s average returns to 76.8. |
|  |  |  | COMMIT; |  | Commit’s the |
| Insert David Banner rows again |  |  |  |  | David Banner row is reinserted into scores. |
|  | Run the select to get the average % for each assessment | Run the select to get the average % for each assessment |  |  | Tony Stark’s average remains at 66.8. |
|  |  |  | Run the select to get the average % for each assessment |  | Tony Stark’s is now 66.8. |
|  |  |  |  | Run the select to get the average % for each assessment | Tony Stark’s average remains at 76.8 and David Banner’s score is now 66.8. |