|  |  |  |
| --- | --- | --- |
|  | Транзакция А | Транзакция В |
|  | **READ UNCOMMITTED** | |
| **Потерянные изменения** | SET TRANSACTION ISOLATION LEVEL READ UNCOMMITTED;  BEGIN; |  |
|  | SET TRANSACTION ISOLATION LEVEL READ UNCOMMITTED;  BEGIN; |
| UPDATE Services SET Price = Price + 50  WHERE IdService = 15; |  |
|  | UPDATE Services SET Price = Price + 50  WHERE IdService = 15; |
| COMMIT; |  |
|  | COMMIT; |
|  | **Аномалия не проявляется** | |
| //////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////// | | |
| **Грязное чтение** | SET TRANSACTION ISOLATION LEVEL READ UNCOMMITTED;  BEGIN; |  |
|  | SET TRANSACTION ISOLATION LEVEL READ UNCOMMITTED;  BEGIN; |
|  | SELECT Price FROM Services WHERE IdService = 15 |
| UPDATE Services SET Price = Price + 50  WHERE IdService = 15; |  |
|  | SELECT Price FROM Services WHERE IdService = 15 |
| ROLLBACK; |  |
|  | SELECT Price FROM Services WHERE IdService = 15 |
|  | COMMIT; |
|  | **Аномалия не проявляется** | |
|  | **READ COMMITTED** | |
| **Грязное чтение** | SET TRANSACTION ISOLATION LEVEL READ UNCOMMITTED;  BEGIN; |  |
|  | SET TRANSACTION ISOLATION LEVEL READ UNCOMMITTED;  BEGIN; |
|  | SELECT Price FROM Services WHERE IdService = 15 |
| UPDATE Services SET Price = Price + 50  WHERE IdService = 15; |  |
|  | SELECT Price FROM Services WHERE IdService = 15 |
| ROLLBACK; |  |
|  | SELECT Price FROM Services WHERE IdService = 15 |
|  | COMMIT; |
|  | **Аномалия не проявляется** | |
| //////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////// | | |
| **Неповторяемое чтение** | SET TRANSACTION ISOLATION LEVEL READ COMMITTED;  BEGIN; |  |
|  | SET TRANSACTION ISOLATION LEVEL READ COMMITTED;  BEGIN; |
| SELECT Price FROM Services WHERE IdService = 15 |  |
|  | UPDATE Services SET Price = Price + 50  WHERE IdService = 15;  COMMIT; |
| SELECT Price FROM Services WHERE IdService = 15 |  |
| COMMIT; |  |
|  | **Аномалия проявляется** | |
|  | **REPEATABLE READ** | |
| **Неповторяемое чтение** | SET TRANSACTION ISOLATION LEVEL REPEATABLE READ;  BEGIN; |  |
|  | SET TRANSACTION ISOLATION LEVEL REPEATABLE READ;  BEGIN; |
| SELECT Price FROM Services WHERE IdService = 15 |  |
|  | UPDATE Services SET Price = Price + 50  WHERE IdService = 15;  COMMIT; |
| SELECT Price FROM Services WHERE IdService = 15 |  |
| COMMIT; |  |
|  | **Аномалия проявляется** | |
| //////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////// | | |
| **Фантомное чтение** | SET TRANSACTION ISOLATION LEVEL READ COMMITTED;  BEGIN; |  |
|  | SET TRANSACTION ISOLATION LEVEL READ COMMITTED;  BEGIN; |
| SELECT Price FROM Services WHERE IdService = 15 |  |
|  | UPDATE Services SET Price = Price + 50  WHERE IdService = 15;  COMMIT; |
| SELECT Price FROM Services WHERE IdService = 15 |  |
| COMMIT; |  |
|  | **Аномалия не проявляется** | |
|  | **SERIALIZABLE** | |
| **Фантомное чтение** | SET TRANSACTION ISOLATION LEVEL REPEATABLE READ;  BEGIN; |  |
|  | SET TRANSACTION ISOLATION LEVEL REPEATABLE READ;  BEGIN; |
| SELECT Count(IdMechanic) FROM Mechanics WHERE Name = 'Дмитрий'; |  |
|  | DELETE FROM Mechanics WHERE IdMEchanic = '15'; |
| SELECT Count(IdMechanic) FROM Mechanics WHERE Name = 'Дмитрий'; |  |
| COMMIT; |  |
|  | **Аномалия не проявляется** | |