



UNCA

Præteritum Noscere Posterum Molier

BASE DE DATOS II

Concurrencia

Ejercicio 3

Ejecute concurrentemente las transacciones en Mysql y describa lo que sucede con las transacciones y la tabla con la que se trabaja.

<pre>mysql> set autocommit=0; Query OK, 0 rows affected (0.00 sec) mysql> select * from bank where id=32 lock in share mode; +-----+-----+ id debit +-----+-----+ 32 666 +-----+-----+ 1 row in set (0.00 sec) mysql> update bank set debit=888 where id=32; ERROR 1213 (40001): Deadlock found when trying to get lock; Try restarting transaction >T1 tiene bloqueado a 32, T2 espera la liberacion</pre>	<pre>mysql> set autocommit=0; Query OK, 0 rows affected (0.00 sec) mysql> update bank set debit=777 where id=32; . . .>Wait unlock</pre>
--	---

>al hacer el update en T1 ahora T1 espera a T2
>por lo tanto se produce un deadlock
>el dbms hace rollback en T1 (ultimo en espera) y procesa T2

```
mysql> select * from bank;
+-----+-----+
| id | debit |
+-----+-----+
| 32 | 666 |
| 66 | 3453 |
+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> select * from bank;
+-----+-----+
| id | debit |
+-----+-----+
| 32 | 666 |
| 66 | 3453 |
+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> rollback;
```

```
.
.
.
.
mysql> update bank set debit=777 where id=32;
Query OK, 1 row affected (23.10 sec)
Rows matched: 1 Changed: 1 Warnings:
0
```

```
mysql> select * from bank;
+-----+-----+
| id | debit |
+-----+-----+
| 32 | 777 |
| 66 | 3453 |
+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> commit;
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> select * from bank;
+-----+-----+
| id | debit |
+-----+-----+
| 32 | 777 |
| 66 | 3453 |
+-----+-----+
2 rows in set (0.00 sec)
```

Query OK, 0 rows affected (0.00 sec)
mysql> select * from bank;

+-----+-----+

| id | debit |

+-----+-----+

| 32 | 777 |

| 66 | 3453 |

+-----+-----+

2 rows in set (0.01 sec)