



INSTITUTO TECNOLÓGICO SUPERIOR DE JEREZ

INGENIERÍA EN SISTEMAS COMPUTACIONALES

5to Semestre

Fecha de entrega: 13/11/2020

Actividad 2: Transacciones SQL.

Tema 4: Concurrencia.

Materia: Taller de Base de Datos.

Nombre del Alumno: Marín Ramírez Mario.

Número de Control: S18070186

Correo electrónico: mariomarin502t@gmail.com

Profesor: I.S.C. Salvador Acevedo Sandoval.

Tutorial 1

```

C:\WINDOWS\system32\CMD.exe - mysql -u root -p
Microsoft Windows [Versión 10.0.18363.1139]
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C:\Users\marin>mysql -u root -p
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 73
Server version: 8.0.19 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use classicmodels;
Database changed
mysql> START TRANSACTION;
Query OK, 0 rows affected (0.00 sec)

mysql> SELECT @orderNumber:=MAX(orderNumber)+1
-> FROM orders;
+-----+
| @orderNumber:=MAX(orderNumber)+1 |
+-----+
| 10426 |
+-----+
1 row in set, 1 warning (0.00 sec)

mysql> INSERT INTO orders(orderNumber, orderDate, requiredDate, shippedDate, status, customerNumber)
-> VALUES(@orderNumber,
-> '2005-05-31',
-> '2005-06-10',
-> '2005-06-11',
-> 'In Process',
-> 145);
Query OK, 1 row affected (0.01 sec)

```

```

mysql> INSERT INTO orderdetails(orderNumber,
-> productCode,
-> quantityOrdered,
-> priceEach,
-> orderLineNumber)
-> VALUES(@orderNumber, 'S18_1749', 30, '136', 1),
-> (@orderNumber, 'S18_2248', 50, '55.09', 2);
Query OK, 2 rows affected (0.01 sec)
Records: 2 Duplicates: 0 Warnings: 0

```

```

mysql> COMMIT;
Query OK, 0 rows affected (0.02 sec)

```

```

mysql> SELECT
-> a.orderNumber,
-> orderDate,
-> requiredDate,
-> shippedDate,
-> status,
-> comments,
-> customerNumber,
-> orderLineNumber,
-> productCode,
-> quantityOrdered,
-> priceEach
-> FROM
-> orders a
-> INNER JOIN
-> orderdetails b USING (orderNumber)
-> WHERE
-> a.orderNumber = 10426;

```

orderNumber	orderDate	requiredDate	shippedDate	status	comments	customerNumber	orderLineNumber	productCode	quantityOrdered	priceEach
10426	2005-05-31	2005-06-10	2005-06-11	In Process	NULL	145	1	S18_1749	30	136.00
10426	2005-05-31	2005-06-10	2005-06-11	In Process	NULL	145	2	S18_2248	50	55.09

2 rows in set (0.00 sec)

Tutorial 2

EJEMPLO “Commit”:

```
C:\WINDOWS\system32\CMD.exe - mysql -u root -p
Microsoft Windows [Versión 10.0.18363.1139]
(c) 2019 Microsoft Corporation. Todos los derechos reservados.

C:\Users\marin>mysql -u root -p
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 59
Server version: 8.0.19 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use bd_tutorial_dos;
Database changed
mysql> START TRANSACTION;
Query OK, 0 rows affected (0.00 sec)

mysql> SELECT @income:= MAX(income) FROM employees;
+-----+
| @income:= MAX(income) |
+-----+
|          5000000      |
+-----+
1 row in set, 1 warning (0.01 sec)

mysql> INSERT INTO employees(emp_id, emp_name, emp_age, city, income)
-> VALUES (111, "Alexander", 45, "California", 700000);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Orders(order_id, product_name, order_num, order_date)
-> VALUES (6, "Printer", 5654, "2020-01-10");
Query OK, 1 row affected (0.00 sec)

mysql> COMMIT;
Query OK, 0 rows affected (0.01 sec)
```

EJEMPLO “Rollback”:

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

mysql> DELETE FROM Orders;
Query OK, 6 rows affected (0.01 sec)

mysql> SELECT * FROM Orders;
Empty set (0.00 sec)

mysql> ROLLBACK;
Query OK, 0 rows affected (0.01 sec)

mysql> SELECT * FROM Orders;
+-----+-----+-----+-----+
| order_id | Product_Name | order_Num | Order_Date |
+-----+-----+-----+-----+
|         1 | Laptop       |        5544 | 2020-02-01 |
|         2 | Mouse        |        3322 | 2020-02-11 |
|         3 | Desktop      |        2135 | 2020-01-05 |
|         4 | Mobiel       |        3432 | 2020-02-22 |
|         5 | Anti-Virus   |        5648 | 2020-03-10 |
|         6 | Printer      |        5654 | 2020-01-10 |
+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

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

mysql> INSERT INTO Orders(order_id, product_name, order_num, order_date)
-> VALUES (7, 'Ink', 5894, '2020-03-10');
Query OK, 1 row affected (0.00 sec)

mysql> SAVEPOINT my_savepoint;
Query OK, 0 rows affected (0.00 sec)

mysql> UPDATE Orders SET prod_name='Scanner' WHERE order_id=8;
ERROR 1054 (42S22): Unknown column 'prod_name' in 'field list'
mysql> UPDATE Orders SET product_name='Scanner' WHERE order_id=8;
Query OK, 0 rows affected (0.00 sec)
Rows matched: 0  Changed: 0  Warnings: 0

mysql> RELEASE SAVEPOINT my_savepoint;
Query OK, 0 rows affected (0.00 sec)

mysql> COMMIT;
Query OK, 0 rows affected (0.01 sec)
```

Tutorial 3

```

C:\WINDOWS\system32\CMD.exe - mysql -u root -p
Microsoft Windows [Versión 10.0.18363.1139]
(c) 2019 Microsoft Corporation. Todos los derechos reservados.

C:\Users\marin>mysql -u root -p
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 61
Server version: 8.0.19 MySQL Community Server - GPL

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use bd_tutorial_tres;
Database changed
mysql> select * from student_mast;
+-----+-----+-----+
| student_id | name          | st_class |
+-----+-----+-----+
|          2 | Neena Kochhar |         9 |
|          3 | Lex de Haan   |         9 |
|          4 | Alexander Hunold |       11 |
+-----+-----+-----+
3 rows in set (0.00 sec)

mysql>
mysql> UPDATE STUDENT_MAST SET ST_CLASS=8 WHERE STUDENT_ID=2;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from student_mast;
+-----+-----+-----+
| student_id | name          | st_class |
+-----+-----+-----+
|          2 | Neena Kochhar |         8 |
|          3 | Lex de Haan   |         9 |
|          4 | Alexander Hunold |       11 |
+-----+-----+-----+
3 rows in set (0.00 sec)

```

```

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

mysql> select * from student_mast;
+-----+-----+-----+
| student_id | name          | st_class |
+-----+-----+-----+
|          2 | Neena Kochhar |         8 |
|          3 | Lex de Haan   |         9 |
|          4 | Alexander Hunold |       11 |
+-----+-----+-----+
3 rows in set (0.00 sec)

```

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

mysql> UPDATE STUDENT_MAST SET ST_CLASS=10 WHERE STUDENT_ID=2;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from student_mast;
+-----+-----+-----+
| student_id | name          | st_class |
+-----+-----+-----+
|          2 | Neena Kochhar |        10 |
|          3 | Lex de Haan   |         9 |
|          4 | Alexander Hunold |        11 |
+-----+-----+-----+
3 rows in set (0.00 sec)

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

mysql> select * from student_mast;
+-----+-----+-----+
| student_id | name          | st_class |
+-----+-----+-----+
|          2 | Neena Kochhar |         8 |
|          3 | Lex de Haan   |         9 |
|          4 | Alexander Hunold |        11 |
+-----+-----+-----+
3 rows in set (0.00 sec)
```