



Instituto Tecnológico Superior de Jerez

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Ingeniería en Sistemas Computacionales

Quinto Semestre

Taller de Bases de Datos

Instrucciones de tutoriales

ISC Salvador Acevedo

TUTORIAL I

COMMIT

1. Iniciamos la transacción

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

2. Obtenemos la última orden

```
mysql> SELECT @orderNumber:=MAX(orderNumber)+1  
-> FROM orders;  
  
+-----+  
| @orderNumber:=MAX(orderNumber)+1 |  
+-----+  
| 10428 |  
+-----+
```

3. Insertamos una nueva orden para customer 145

```
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 (0.00 sec)
```

4. Insertamos los registros de los objetos

```
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 (0.00 sec)  
Records: 2 Duplicates: 0 Warnings: 0
```

5. hacemos commit de los cambios;

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

Obtenemos el pedido de cliente recién creado

```
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	55.00

2 rows in set (0.00 sec)

ROLLBACK

Iniciamos transacción;

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

```
mysql> DELETE FROM orders;
```

Hacemos rollback para obtener de vuelta la información;

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

TUTORIAL II

```
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", 70000);
```

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)

ROLLBACK

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

mysql> DELETE FROM Orders;
Query OK, 1 row affected (0.00 sec)

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

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

mysql> SELECT * FROM Orders;
+-----+-----+-----+-----+
| order_id | Product_Name | order_Num | Order_Date |
+-----+-----+-----+-----+
|         6 | Printer      |      5654 | 2020-01-10 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

TUTORIAL III

```
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 (0.01 sec)

mysql> UPDATE STUDENT_MAST SET ST_CLASS=8 WHERE STUDENT_ID=2;
Query OK, 1 row affected (0.02 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 (0.01 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)
```