





Instituto Tecnológico Superior de Jerez – ITSJ

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5to Semestre Carrera: Ingeniería en sistemas computacionales (ISC).

Materia: Taller de Base De Datos.

Actividad: Tutoriales.

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1.Iniciamos la transacción

START TRANSACTION;

2. Obtenemos la ultima orden

SELECT @orderNumber:=MAX(orderNUmber)+1

FROM orders;

3. insertamos una nueva orden para customer 145

INSERT INTO orders(orderNumber, orderDate, requiredDate, shippedDate, status, customerNumber)

VALUES(@orderNumber, '2005-05-31', '2005-06-10', '2005-06-11', 'In Process', 145);

- 4. Insertamos los registros de los objetos
 - INSERT INTO orderdetails(orderNumber, productCode, quantityOrdered, priceEach, orderLineNumber)
 - VALUES(@orderNumber,'S18_1749', 30, '136', 1), (@orderNumber,'S18_2248', 50, '55.09', 2);
- 5. hacemos commit de los cambios
 - COMMIT;
 - 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;
 - ROLLBACK;
 - START TRANSACTION;





orders;









Link 2:

- START TRANSACTION;
- SELECT @income:= MAX(income) FROM employees;
- INSERT INTO employees(emp_id, emp_name, emp_age, city, income)
- VALUES (111, "Alexander", 45, "California", 70000);
- INSERT INTO Orders(order_id, prod_name, order_num, order_date)
- VALUES (6, "Printer", 5654, "2020-01-10");
- COMMIT;







ROLLBACK Example:

- Start a new transaction
- START TRANSACTION;
- Delete data from the order table
- DELETE FROM Orders;

- Rollback changes
- ROLLBACK;
- Verify the records in the first session
- SELECT * FROM Orders;







SAVEPOINT, ROLLBACK TO SAVEPOINT, RELEASE SAVEPOINT Example

- > START TRANSACTION;
- SELECT * FROM Orders;
- INSERT INTO Orders(order_id, prod_name, order_num, order_date)
 VALUES (6, 'Printer', 5654, '2020-01-10');
- SAVEPOINT my_savepoint;
- INSERT INTO Orders(order_id, prod_name, order_num, order_date)
 VALUES (7, 'Ink', 5894, '2020-03-10');
- ROLLBACK TO SAVEPOINT my savepoint;
- INSERT INTO Orders(order_id, prod_name, order_num, order_date)
 VALUES (8, 'Speaker', 6065, '2020-02-18');
- COMMIT;

```
mysql> START TRANSACTION;
Query OK, 0 rows affected (0.00 sec)
 mysql> SELECT * FROM Orders;
  order id | Product Name | order Num | Order Date
                                             5544 | 2020-02-01
3322 | 2020-02-11
2135 | 2020-01-05
3432 | 2020-02-22
              1 | Laptop
              2 Mouse
              3 Desktop
              4 | Mobiel
                                                   5648 | 2020-03-10
5654 | 2020-01-10
              5 | Anti-Virus
              6 | Printer
6 rows in set (0.00 sec)
mysql> INSERT INTO Orders(order_id, prod_name, order_num, order_date)
-> VALUES (6, 'Printer', 5654, '2020-01-10');
ERROR 1054 (42522): Unknown column 'prod_name' in 'field list'
mysql> INSERT INTO Orders(order_id, prod_name, order_num, order_date) ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that
corresponds to your MySQL server version for the right syntax to use near '' a
 wysql> INSERT INTO Orders(order_id, Product_name, order_num, order_date)
-> VALUES (6, "Printer", 5654, "2020-01-10");
ERROR 1062 (23000): Duplicate entry '6' for key 'orders.PRIMARY'
mysql> SAVEPOINT my_savepoint;
Query OK, 0 rows affected (0.00 sec)
mysql> INSERT INTO Orders(order_id, product_name, order_num, order_date)
 mysql> SAVEPOINT my_savepoint;
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 (0.01 sec)
mysql> ROLLBACK TO SAVEPOINT my_savepoint;
Query OK, 0 rows affected (0.00 sec)
mysql> INSERT INTO Orders(order_id, product_name, order_num, order_date)
-> VALUES (8, "Speaker", 6065, "2020-02-18");
Query OK, 1 row affected (0.00 sec)
mysql> COMMIT;
Query OK, 0 rows affected (0.05 sec)
```







- > START TRANSACTION;
- INSERT INTO Orders(order_id, product_name, order_num, order_date)
- VALUES (7, "Ink', 5894, '2020-03-10');
- SAVEPOINT my_savepoint;
- UPDATE Orders SET prod_name='Scanner' WHERE order_id=8;
- RELEASE SAVEPOINT my_savepoint;
- COMMIT;







Link 3;

Ejemplo 1:

- select * from student_mast;
- ➤ UPDATE STUDENT_MAST SET ST_CLASS=8 WHERE STUDENT_ID=2;
- select * from student_mast;
- ROLLBACK;
- select * from student_mast;







EJEMPLO 2:

- > START TRANSACTION;
- ▶ UPDATE STUDENT_MAST SET ST_CLASS=10 WHERE STUDENT_ID=2;
- select * from student_mast;
- ROLLBACK;
- select * from student_mast;