# Lab 11:SQL Insert, Update, and Delete

CS355/CE373 Database Systems Fall 2024



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### 1 Instructions

- This lab will contribute 1% towards the final grade.
- The deadline to submit this lab is at the end of your lab.
- The lab must be submitted online via CANVAS. The SQL file should be named as Lab\_11\_aa01234.sql where aa01234 will be replaced with your student id. Files which don't follow the appropriate naming convention will not be graded.

#### 1.1 Marking scheme

This lab will be marked out of 100.

- 50 Marks are for completion of the lab.
- 10 Marks are for filling the feedback form within the lab timings.
- 40 Marks are for progress and attendance during the lab.

#### 1.2 Late submission policy

No late submissions are allowed.

## 2 Objective

This lab activity is prepared on Northwind Sample Database of SQL Server. The database will be analyzed for the following SQL constructs:

- Insert
- Update
- Delete

# 3 Query Syntax Examples

```
01 | -- Insert
02 | drop table test
03 | Create table test (testid int identity (1,1), testname varchar(20),
         testdate
04 | datetime, testnumber int)
05 | select * from test
06 | --Insert Into Region(regionid, regiondescription) Values (5, 'Central')
07 | Insert into test (testname, testdate, testnumber) values
08 | ('aaaa', getdate(), 123)
09 | Insert into test (testname, testdate) values ('aaaa',getdate())
10 | Insert into test (testname, testdate, testnumber)
11 | values ('aaaa', (select min(orderdate) from orders), 123)
12 | Select @@Identity
13 | select scope_identity()
     Insert Into test(testname, testdate, testnumber)
     Select CustomerID, OrderDate, OrderID from Orders
     select * from test
17 |
     --Update
18 |
     Update test
     Set testName ='xyz',
19 |
20 \mid testnumber = 5
21 | Where testID < 10
22 | Update Test
```

```
23 | Set testNumber = EmployeeID,
24 | testName = 'test' + cast(testid as varchar(3))
25 | From Orders
26 | Where Orders.orderid = testNumber
27 | --Delete
28 | Delete Test
29 | Where TestID <= 10
30 | Delete Test
31 | Where TestNumber in (10253,10254)
32 | Delete Test
33 | Where TestNumber in (select orderid from orders where customerid = 'ALFKI')
34 | delete test
35 | from employees
36 | where testid = employeeid
```

#### 4 Exercises

The ERD Diagram for the Northwind Database is as shown in Figure 1.

- 1. Insert a new product with following details.
  - Product Name = 'Coca Cola'
  - Category ID = 1
  - Unit Price = 90
- 2. Insert a new product with following details.
  - Product ID = 79
  - Product Name = 'Fish'
  - Category ID = 8 (Category ID of seafood)
  - Unit Price = 50
- 3. Increase the price of products in 'Confections' category by 25%.
- 4. Insert a new category titled 'Drinks'.
- 5. Insert products in the 'Beverages' category into the 'Drinks' category, allowing them to belong to both categories.
- 6. Change the category of all products labeled as 'Beverages' to 'Drinks.
- 7. Update records so that the employee 'Robert King' is assigned same territories as that of 'Andrew Fuller'.
  - (a) Delete existing territory assignments of 'Robert King'.
  - (b) Insert new assignments.
- 8. Delete Products of category 'Seafood' having amount < 5 in Products.
- 9. Delete all orders of CustomerID 'CHOPS'.
- 10. Delete all orders that have been shipped in April, 1998.

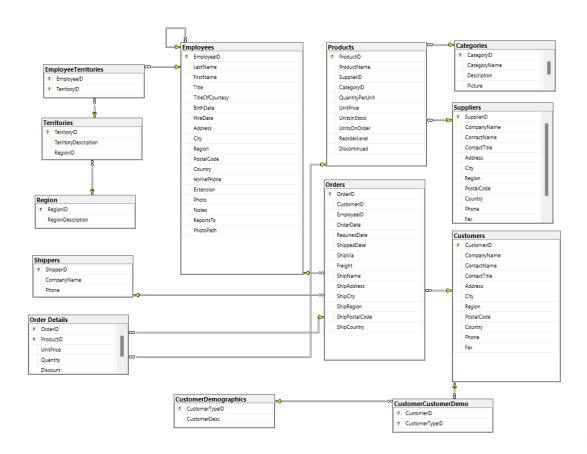


Figure 1: Northwind Database ERD