

Slide 5.11: SQL insert into statement

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SQL Insert into Statement (Cont.)

Insert Data Only in Specified Columns

The insert into statement can be with or without all column names:

```
1 INSERT INTO Persons (P_Id, LastName, FirstName, Address, City)
2 VALUES (4 , 'Nilsen', 'Johan', 'Bakken 2', 'Stavanger');
```

One row is added after the above insert into statement executes:

P_Id	LastName	FirstName	Address	City
1	Hansen	Ola	Timoteivn 10	Sandnes
2	Svendson	Tove	Borgvn 23	Sandnes
3	Pettersen	Kari	Storgt 20	Stavanger
4	Nilsen	Johan	Bakken 2	Stavanger

It is also possible to only add data in specific columns. The following SQL statement will add a new row, but only add data in the P_Id, LastName, and FirstName columns:

```
1 INSERT INTO Persons (P_Id, LastName, FirstName)
2 VALUES (5 , 'Tjessem', 'Jakob');
```

The columns not specified are inserted with values NULL, which represents missing unknown data. NULL values are treated differently from other values. It is used as a placeholder for unknown or inapplicable values.

P_Id	LastName	FirstName	Address	City
1	Hansen	Ola	Timoteivn 10	Sandnes
2	Svendson	Tove	Borgvn 23	Sandnes

3	Pettersen	Kari	Storgt 20	Stavanger
4	Nilsen	Johan	Bakken 2	Stavanger
5	Tjessem	Jakob		

Demonstration

The following is an SQL test area from [W3Schools](http://www.w3schools.com), which uses the well-known [Northwind](http://www.northwind.net) sample database and the tables are for read only.

SQL Statement:

```
SELECT CustomerID, COUNT(OrderID)
FROM Orders
GROUP BY CustomerID
HAVING CustomerID < 10;
```

The Database includes:

Restore
Database

Edit the SQL statement and click to see the result, or

Result:

Click **"Run SQL"** to execute the SQL statement above.

W3Schools has created an SQL database in your browser.

The menu to the right displays the database, and will reflect any changes.

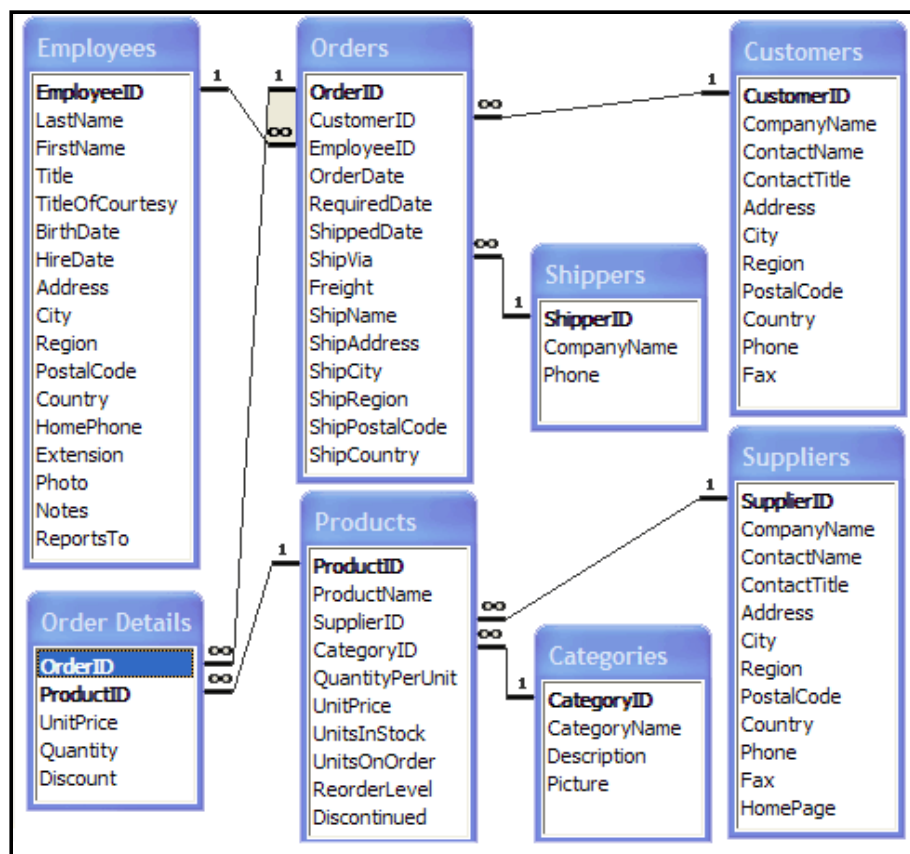
Feel free to experiment with any SQL statement.

You can restore the database at any time.

The Database includes:

Tablenames Records

Customers	91
Categories	8
Employees	10
OrderDetails	518
Orders	196
Products	77



Shippers 3
Suppliers 29

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