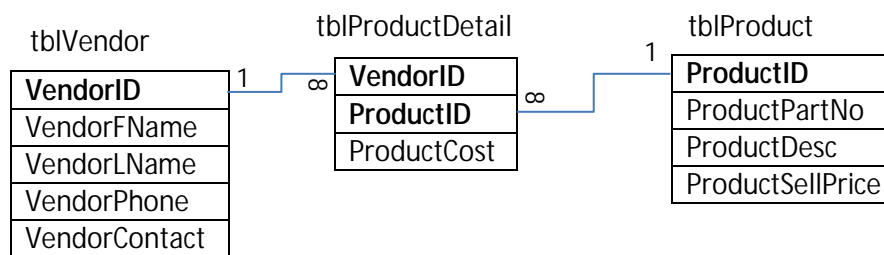


DDL – Data Definition Language

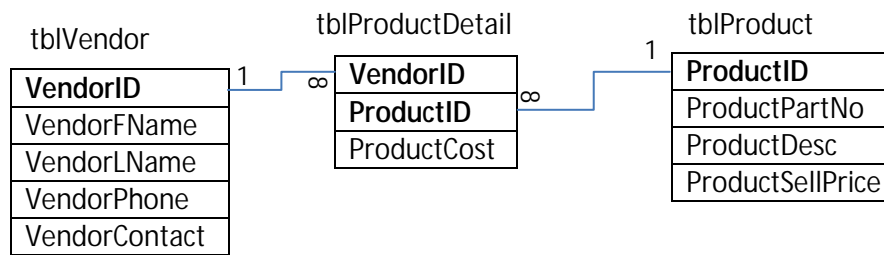
CREATE ALTER DROP RENAME	Data Definition Language (DDL) Creates, changes, and removes data structures.
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Examples for the CREATE TABLE statement:



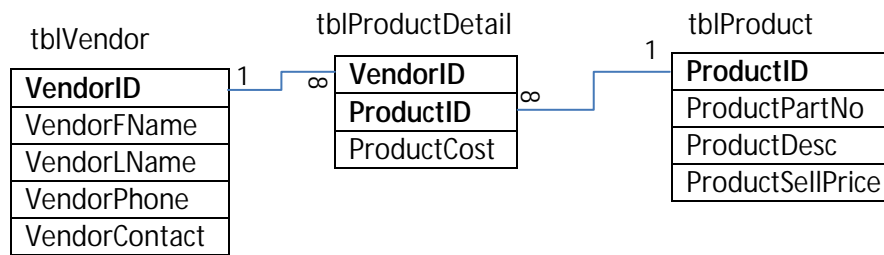
Create a table - And give the primary key constraint a name.	<pre>CREATE TABLE tblProduct (ProductID NUMBER(38) CONSTRAINT tblProduct_pk PRIMARY KEY, ProductPartNo VARCHAR2(15), ProductDesc VARCHAR2(35), ProductSellPrice Number(5,2));</pre>
Create a table – Same as above but do not give the PK constraint a name.	<pre>CREATE TABLE tblProduct (ProductID NUMBER(38) PRIMARY KEY, ProductPartNo VARCHAR2(15), ProductDesc VARCHAR2(35), ProductSellPrice Number(5,2));</pre>
Create a table with a composite primary key.	<pre>CREATE TABLE tblProductDetail (ProductID NUMBER(38), VendorID NUMBER(38), ProductCost Number(5,2), PRIMARY KEY (ProductID, VendorID));</pre>
Create a table – Same as above but now add in the foreign key constraints.	<pre>CREATE TABLE tblProductDetail (ProductID NUMBER(38), VendorID NUMBER(38), ProductCost Number(5,2), PRIMARY KEY (ProductID, VendorID), FOREIGN KEY (ProductID) REFERENCES tblProduct(ProductID), FOREIGN KEY (VendorID) REFERENCES tblVendor(VendorID));</pre>
Create a table and set the ProductSellPrice to a default value of 0.	<pre>CREATE TABLE tblProduct (ProductID NUMBER(38) PRIMARY KEY, ProductPartNo VARCHAR2(15), ProductDesc VARCHAR2(35), ProductSellPrice Number(5,2) DEFAULT 0);</pre>
Create a table with a check constraint on the SellPrice field – this check constraint ensures the selling price is between 0 and 100 dollars.	<pre>CREATE TABLE tblProduct (ProductID NUMBER(38) PRIMARY KEY, ProductPartNo VARCHAR2(15), ProductDesc VARCHAR2(35), ProductSellPrice Number(5,2), CONSTRAINT check_SellPrice CHECK (ProductSellPrice Between 0 AND 100));</pre>

Examples for the ALTER TABLE statement:



Add a column to an existing table	ALTER TABLE <i>tblVendor</i> ADD <i>VendorCity</i> VARCHAR2 (20);
Add more than one column to an existing table	ALTER TABLE <i>tblVendor</i> ADD <i>VendorCity</i> VARCHAR2 (20), ADD <i>VendorProvince</i> VARCHAR2 (25);
Change the size of an existing column or change the data type Note: You cannot modify multiple columns in one statement.	ALTER TABLE <i>tblProduct</i> MODIFY <i>ProdDesc</i> VARCHAR2 (55);
Changing the default value of a column.	ALTER TABLE <i>tblProductDetail</i> MODIFY <i>ProductCost</i> DEFAULT 0;
Removing (dropping) a column	ALTER TABLE <i>tblVendor</i> DROP COLUMN <i>VendorContact</i> ;

Working with Indexes:



Create a non-unique index on the PartNo field and give the index a name of ndx_Product_PartNo	<code>CREATE INDEX ndx_Product_PartNo ON tblProduct(ProductPartNo);</code>
Same as above but now a unique index	<code>CREATE UNIQUE INDEX ndx_Product_PartNo ON tblProduct(ProductPartNo);</code>
Create a composite index on the first and last name	<code>CREATE INDEX ndx_Vendor_Name ON tblVendor(VendorFName, VendorLName);</code>
Creates a function based index on the PartNo	<code>CREATE INDEX ndx_Product_PartNo ON tblProduct(UPPER(ProductPartNo));</code>
Renaming an index	<code>ALTER INDEX ndx_Product_PartNo RENAME TO ndx_Product_Part;</code>
Remove (drop) an index	<code>DROP INDEX ndx_Product_PartNo;</code>