

O*NET 3.1 Database
Data Dictionary
Visual FoxPro Version



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Introduction

O*NET, the Occupational Information Network, is a comprehensive database of worker attributes and job characteristics. As the replacement for the Dictionary of Occupational Titles (DOT), O*NET will be the nation's primary source of occupational information.

Information from the O*NET Database is available from the National O*NET Consortium (<http://www.onetcenter.org>). The consortium utilizes two means of delivery: an on-line database viewer (<http://online.onetcenter.org/>) and a downloadable database consisting of a series of tab-delimited text files, along with related file documentation (<http://www.onetcenter.org/database.html>).

The National Crosswalk Service Center (NCSC), formerly the NOICC Crosswalk and Data Center, has distributed resources related to occupational classifications such as the DOT since 1983. The contents of the files described in this document were taken from the database downloaded from the third Internet page sited above. The tables are also available in a MS Access format. Contact the NCSC for more information.

The contents of the files in the database described in this document were adapted from the files downloaded from the consortium web site. Some fields were eliminated from these tables to eliminate redundancy and bring the database into a more normalized configuration. Two files (*dotcode* and *oucode*) were extracted from the same source files so that redundant occurrences of DOT and OU titles could be eliminated from other files.

Database Changes

Users who have downloaded and used the NCSC Visual FoxPro version of the O*NET 3.0 database will notice a number of changes included in the latest version. Generally speaking, many table and variable names have been shortened. These changes can, for the most part, be credited to the creation of an O*NET 3.0 database for use in conjunction with the ALMIS Database which utilizes similar naming conventions. Much of the design of the ALMIS Database-friendly O*NET database was done by Dana Placzek of the Connecticut Department of Labor. The NCSC adopted this database structure to avoid creating and supporting two Visual FoxPro versions of the O*NET 3.1 database.

HOW TO READ A TABLE DEFINITION*

Each table definition contains complete information about the structure of a table. Each definition includes: the name of the table, a complete list of each column name and data type, complete constraint information, and short descriptions of the columns. The following illustration identifies each component of a table definition.

Interest -- Interest Descriptors and their ratings for each occupation

Column	Type	Constraint	Description
onetcode	char(8)	Primary Key 1	Unique occupation code based on SOC code, modified for O*NET
elementid	char(15)	Primary Key 2	Unique code for O*NET Content Model descriptors
Scalid	char(2)	Primary Key 3	Unique code for O*NET descriptors scale
datavalue	number(6,2)		Value of descriptor rating
Constraint Information			
1 Foreign Key references: onetcode.onetcode 2 Foreign Key references: contmodel.elementid 3 Foreign Key references: scaleref.scaleid			
Other Information			
◆ 8,100 Records ◆ Source table: interest			

Constraint: Specifies whether this column is part of the Primary Key or participates in one or more Foreign Keys. Numbers in this column refer to Foreign Keys where more detailed information can be found in the **Constraints Information** section.

Other Information: Provides count of the number of records in the table and the table(s) in the source O*NET database from which the contents were derived.

Constraint Information: Provides complete information on each Foreign Key used in the table. Each note indicates which table and columns are being referenced.

Short description of the data intended for this column.

TABLE CONSTRAINTS

The Constraint section of each table definition identifies all Primary Keys and Foreign Keys for the table. The constraints for a table specify rules for data that will be stored in that table. These rules exist in the form of either Primary Keys or Foreign Keys. The definitions of these terms appear below:

Primary Key: The *Primary Key* is a column or group of columns that shall always be (1) non-null and (2) unique. Only one primary key exists for each table. A Primary Key constraint is enforced on a table so that each row in the table can be uniquely identified.

Foreign Key: A *Foreign Key* is a column or group of columns where each value or group of values exists as a Primary Key in another table. Foreign Key constraints are used so that data for a column or group of columns can be validated against another table containing a list of valid values for that column or group of columns.

* Thanks to the **North Carolina Employment Security Commission** and the **ALMIS Database Maintenance Consortium** for the use of the format for table descriptions used in this document and this section describing the contents of those layouts.

O*NET 3.1 Data Dictionary – Table Formats

Descriptive Tables: These tables contain information describing the classifications and variables found in the O*NET 3.1 database.

onetcode -- This table contains one record for each O*NET-SOC Occupation			
Column	Type	Constraint	Description
onetcode	char(8)	Primary Key	Unique occupation code based on SOC code, modified for O*NET
onettile	char(105)		Occupation title
jobzonecd	char(1)	1	Job Zone of the O*NET-SOC occupation
onetdesc	memo		Description of occupation
Constraint Information			
1 Foreign Key references: jobzone.jobzonecd			
Other Information			
<ul style="list-style-type: none"> ◆ 1,166 Records ◆ O*NET source tables: onetsoc_data and onetsoc_job_zones 			

soccode -- This table contains one record for each occupation in the 1998 Standard Occupational Classification			
Column	Type	Constraint	Description
soccode	char(6)	Primary Key	Standard Occupational Classification code
soctitle	char(105)		SOC Occupation title
Constraint Information			
N/A			
Other Information			
<ul style="list-style-type: none"> ◆ 846 Records ◆ O*NET source table: soc_classification 			

dotcode -- This table provides a listing of titles for all DOT codes found in the DOTXONET crosswalk table			
Column	Type	Constraint	Description
dotcode	char(9)	Primary Key	Dictionary of Occupational Titles code
dottitle	char(70)		DOT Occupation title
Constraint Information			
N/A			
Other Information			
<ul style="list-style-type: none"> ◆ 12,814 Records ◆ Source table: dot_to_onetsoc_crosswalk 			

oucode -- This table provides a listing of titles for all Occupational Unit (OU) codes from the O*NET 98 classification found in the ONETXOU crosswalk table			
Column	Type	Constraint	Description
oucode	char(6)	Primary Key	Occupational Unit code, from O*NET98
outitle	char(95)		OU Occupation title
Constraint Information			
N/A			
Other Information			
<ul style="list-style-type: none"> ◆ 854 Records ◆ Source table: soc_ou_onetsoc_crosswalk 			

contmodl -- O*NET content model reference			
Column	Type	Constraint	Description
elementid	char(15)	Primary Key	Unique code for ratings Scale
elemntname	char(50)		Descriptor Name
elemntdesc	memo		Description of Descriptor
Constraint Information			
N/A			
Other Information			
<ul style="list-style-type: none"> ◆ 612 Records ◆ Source table: onet_content_model_reference 			

scaleref -- Provides a reference to the scale names and values			
Column	Type	Constraint	Description
scaleid	char(2)	Primary Key	Unique code for ratings Scale
scalename	char(35)		Name of Scale
scalemin	number(3,0)		Minimum value the descriptor scale can take
scalexmax	number(3,0)		Maximum value the descriptor scale can take
Constraint Information			
N/A			
Other Information			
<ul style="list-style-type: none"> ◆ 61 Records ◆ Source table: scales_reference 			

Jobzone -- This table contains descriptions of each of O*NET's job zones			
Column	Type	Constraint	Description
jobzonecd	char(1)	Primary Key	Unique code for Job Zone
jobzone	char(50)		Name of Job Zone
experience	Memo		Experience required to be considered part of this job zone
education	Memo		Education required to be considered part of this job zone
training	Memo		Training required to be considered part of this job zone
examples	Memo		Examples of the types of jobs in this job zone
svprange	char(15)		
Constraint Information			
N/A			
Other Information			
<ul style="list-style-type: none"> ◆ 5 Records ◆ Source table: job_zone_reference 			

Data tables: These tables contain the variables which define the characteristics of O*NET occupations.

skills -- Skills Descriptors and their ratings for each occupation			
Column	Type	Constraint	Description
onetcode	char(8)	Primary Key 1	Unique occupation code based on SOC code, modified for O*NET
elementid	char(15)	Primary Key 2	Unique code for O*NET Content Model descriptors
scaleid	char(2)	Primary Key 3	Unique code for O*NET descriptors scale
datavalue	number(6,2)		Value of descriptor rating
Constraint Information			
1 Foreign Key references: onetcode.onetcode 2 Foreign Key references: contmodel.elementid 3 Foreign Key references: scaleref.scaleid			
Other Information			
<ul style="list-style-type: none"> ◆ 82,800 Records ◆ Source table: skills 			

tasks -- Provides each O*NET-SOC code (occupation) mapping to several tasks associated with the occupation			
NOTE: This table did not have a unique field as received from O*NET. The table was restructured to include a unique Primary Key by the addition of the Task Number field.			
Column	Type	Constraint	Description
onetcode	char(8)	Primary Key 1	Unique ONET-SOC Code
tasknumber	number(2,0)	Primary Key	Line number of each task within ONET-SOC Code
taskdesc	Memo		Tasks involved in occupation
Constraint Information			
1 Foreign Key references: onetcode.onetcode			
Other Information			
<ul style="list-style-type: none"> ◆ 10,266 Records ◆ Source table: tasks 			

knowledg – Knowledge Descriptors and their ratings for each occupation			
Column	Type	Constraint	Description
onetcode	char(8)	Primary Key 1	Unique occupation code based on SOC code, modified for O*NET
elementid	char(15)	Primary Key 2	Unique code for O*NET Content Model descriptors
scaleid	char(2)	Primary Key 3	Unique code for O*NET descriptors scale
datavalue	number(6,2)		Value of descriptor rating
Constraint Information			
1 Foreign Key references: onetcode.onetcode 2 Foreign Key references: contmodel.elementid 3 Foreign Key references: scaleref.scaleid			
Other Information			
<ul style="list-style-type: none"> ◆ 59,400 Records ◆ Source table: knowledge 			

ability -- Ability Descriptors and their ratings for each occupation			
Column	Type	Constraint	Description
onetcode	char(8)	Primary Key 1	Unique occupation code based on SOC code, modified for O*NET
elementid	char(15)	Primary Key 2	Unique code for O*NET Content Model descriptors
scaleid	char(2)	Primary Key 3	Unique code for O*NET descriptors scale
datavalue	number(6,2)		Value of descriptor rating
Constraint Information			
1 Foreign Key references: onetcode.onetcode 2 Foreign Key references: contmodel.elementid 3 Foreign Key references: scaleref.scaleid			
Other Information			
<ul style="list-style-type: none"> ◆ 93,600 Records ◆ Source table: ability 			

interest -- Interest Descriptors and their ratings for each occupation			
Column	Type	Constraint	Description
onetcode	char(8)	Primary Key 1	Unique occupation code based on SOC code, modified for O*NET
elementid	char(15)	Primary Key 2	Unique code for O*NET Content Model descriptors
scaleid	char(2)	Primary Key 3	Unique code for O*NET descriptors scale
datavalue	number(6,2)		Value of descriptor rating
Constraint Information			
1 Foreign Key references: onetcode.onetcode 2 Foreign Key references: contmodel.elementid 3 Foreign Key references: scaleref.scaleid			
Other Information			
<ul style="list-style-type: none"> ◆ 8,100 Records ◆ Source table: interest 			

activity -- Work Activity Descriptors and their ratings for each occupation			
Column	Type	Constraint	Description
onetcode	char(8)	Primary Key 1	Unique occupation code based on SOC code, modified for O*NET
elementid	char(15)	Primary Key 2	Unique code for O*NET Content Model descriptors
scaleid	char(2)	Primary Key 3	Unique code for O*NET descriptors scale
datavalue	number(6,2)		Value of descriptor rating
Constraint Information			
1 Foreign Key references: onetcode.onetcode 2 Foreign Key references: contmodel.elementid 3 Foreign Key references: scaleref.scaleid			
Other Information			
<ul style="list-style-type: none"> ◆ 113,400 Records ◆ Source table: WorkActivity 			

context -- Work Context Descriptors and their ratings for each occupation			
Column	Type	Constraint	Description
onetcode	char(8)	Primary Key 1	Unique occupation code based on SOC code, modified for O*NET
elementid	char(15)	Primary Key 2	Unique code for O*NET Content Model descriptors
scaleid	char(2)	Primary Key 3	Unique code for O*NET descriptors scale
datavalue	number(6,2)		Value of descriptor rating
Constraint Information			
1 Foreign Key references: onetcode.onetcode 2 Foreign Key references: contmodel.elementid 3 Foreign Key references: scaleref.scaleid			
Other Information			
<ul style="list-style-type: none"> ◆ 53,100 Records ◆ Source table: WorkContext 			

workvalu -- Work Value Descriptors and their ratings for each occupation			
Column	Type	Constraint	Description
onetcode	char(8)	Primary Key 1	Unique occupation code based on SOC code, modified for O*NET
elementid	char(15)	Primary Key 2	Unique code for O*NET Content Model descriptors
scaleid	char(2)	Primary Key 3	Unique code for O*NET descriptors scale
datavalue	Number(6,2)		Value of descriptor rating
Constraint Information			
1 Foreign Key references: onetcode.onetcode 2 Foreign Key references: contmodel.elementid 3 Foreign Key references: scaleref.scaleid			
Other Information			
<ul style="list-style-type: none"> ◆ 24,300 Records ◆ Source table: WorkValue 			

Crosswalk tables: These tables incorporate the relationships among the various classifications found in the O*NET 3.1 database.

relococs -- Occupations related to each O*NET-SOC occupation			
Column	Type	Constraint	Description
onetcode	Char(8)	Primary Key 1	Unique ONET-SOC Code
relonetcd	Char(8)	Primary Key 2	Unique ONET-SOC Code of related occupation
Constraint Information			
1 Foreign Key references: onetcode.onetcode			
2 Foreign Key references: onetcode.onetcode			
Other Information			
<ul style="list-style-type: none"> ◆ 6,397 Records ◆ Source table: related_occupation_data 			

onetxsoc -- Crosswalk between the O*NET-SOC occupations and the SOC.			
Column	Type	Constraint	Description
onetcode	char(8)	Primary Key 1	Unique ONET-SOC Code
soccode	char(6)	Primary Key 2	Unique SOC Code
Constraint Information			
1 Foreign Key references: onetcode.onetcode			
2 Foreign Key references: onetcode.onetcode			
Other Information			
<ul style="list-style-type: none"> ◆ 1,166 Records ◆ Source table: soc_ou_onetsoc_crosswalk 			

onetxou -- Crosswalk between the O*NET-SOC occupations and the O*NET98 occupation unit codes.			
Column	Type	Constraint	Description
onetcode	char(8)	Primary Key 1	Unique ONET-SOC Code
oucode	char(6)	Primary Key	Unique SOC Code
Constraint Information			
1 Foreign Key references: onetcode.onetcode			
Other Information			
<ul style="list-style-type: none"> ◆ 1,166 Records ◆ Source table: soc_ou_onetsoc_crosswalk 			

dotxonet -- Crosswalk between DOT and O*NET-SOC codes (has 12,814 DOT occupations)			
Column	Type	Constraint	Description
dotcode	char(9)	Primary Key	Dictionary of Occupation Titles' Code
onetcode	char(8)	Primary Key 2	Unique ONET-SOC Code
Constraint Information			
1 Foreign Key references: dotcode.dotcode			
2 Foreign Key references: onetcode.onetcode			
Other Information			
<ul style="list-style-type: none"> ◆ 12,945 Records ◆ Source table: dot_to_onetsoc_crosswalk 			