

Introduction

This document provides a reference to the files available in the O*NET 4.0 **core** database. It serves as documentation for systems analysts and developers who plan to use the O*NET 4.0 database as a basis for developing other products, software, or system applications.

Each file in the O*NET 4.0 database contains data that can be used to create a database structure with a database management system (DBMS) of choice. The files do NOT represent a database structure, but provide as much content as possible for the database developer to pick and choose columns for database field and table creation. The O*NET-SOC Code is a common key/link between the various data elements for developers wishing to create a relational database structure. The data in each file are contained in tab-delimited text fields with column headings in the first row of the file.

Each item below corresponds to a file in the O*NET 4.0 database. A list of columns is included, showing the column name used in the file, its data type, and the full name of its content. (Note: The column names provided are intended to be descriptive of the file contents, and are not suggested or required names to be used in constructing database tables.) A description and data example from each file are included.

The data types are taken from the Oracle DBMS :

CHAR: fixed-length character string;
VARCHAR2: varying-length string;
NUMBER: number.

The NUMBER data type is used in two different instances in the files. One is to contain a number without a decimal point, an integer, such as the Job Zone column. The other instance uses a decimal point to represent the Value column for the floating point ratings associated with the O*NET-SOC occupations. It is indicated as NUMBER(9,6) which means 9 total places are in the number with the possibility of 3 before the decimal point and 6 behind the decimal point.

File Descriptions

1) O*NET-SOC Data

Purpose: This file contains O*NET-SOC data. O*NET-SOC Codes, titles, and definitions are provided.

File Name: onetsoc_data

Column	Type	Column Content
O*NET-SOC Code	VARCHAR2(10)	O*NET-SOC Code
Title	VARCHAR2(150)	O*NET-SOC Title
Description	VARCHAR2(1000)	O*NET-SOC Description

This file contains each O*NET SOC code, occupational title, and definition/description. They are displayed in three (3) tab delimited fields with the columns named O*NET-SOC Code, Title and Description. Each of the three (3) fields is represented by one (1) row (line of text). There are a total of 1,166 records or rows of data in this file.

Data Example:

O*NET-SOC Code	Title	Description
11-1011.01	Government Service Executives	Determine and formulate policies and provide overall direction of Federal, State, local, or international government activities. Plan, direct, and coordinate operational activities at the highest level of management with the help of subordinate managers.

2) Job Zone Reference

Purpose: The data in this file contains Job Zone data. This data was developed to help transition DOT's measures of Specific Vocational Preparation (SVP) to O*NET's measure of experience, education, and job training.

File Name: job_zone_reference

Column	Type	Column Content
Number	NUMBER(1)	Job Zone number
Name	VARCHAR2(50)	Job Zone name/zone
Experience	VARCHAR2(300)	Job Zone experience requirements
Education	VARCHAR2(500)	Job Zone educational requirements
Job Training	VARCHAR2(300)	Job Zone training requirements
Examples	VARCHAR2(500)	Job Zone examples
SVP Range	VARCHAR2(25)	Specific vocational preparation range

This file provides the Job Zone data in seven (7) tab delimited fields with the columns named Number, Name, Experience, Education, Job Training, Examples, and SVP Range. Each of the seven (7) fields is represented by 1 row (line of text). There are 5 records or rows of data in this file representing each Job Zone.

Data Example:

Number: 1
Name: Job Zone One : Little or No Preparation Needed
Experience: No previous work-related skill, knowledge, or experience is needed for these occupations. For example, a person can become a general office clerk even if he/she has never worked in an office before.
Education: These occupations may require a high school diploma or GED certificate. Some may require a formal training course to obtain a license.
Training: Employees in these occupations need anywhere from a few days to a few months of training. Usually, an experienced worker could show you how to do the job.
Examples: These occupations involve following instructions and helping others. Examples include bus drivers, forest and conservation workers, general office clerks, home health aides, and waiters/waitresses.
SVP Range: (Below 4.0)

3) O*NET-SOC Job Zones

Purpose: The data in this release contains Related Occupation data. Related Occupations displays a list of related jobs that have similar characteristics.

File Name: onetsoc_job_zones

Column	Type	Column Content
O*NET-SOC Code	VARCHAR2(10)	O*NET-SOC Code
Job Zone	NUMBER(1)	Job Zone Number

This file provides each O*NET-SOC code and its corresponding job zone number. Each record is displayed in two (2) tab delimited fields with the columns named O*NET-SOC Code and Job Zone. Each of the two (2) fields is represented by 1 row (line of text). There are a total of 900 records or rows of data in this file.

Data Example:

O*NET-SOC Code	Job Zone
11-1011.01	4
11-1011.02	5

4) O*NET Content Model Reference

Purpose: O*NET Content Model elements

File Name: onet_content_model_reference

Column	Type	Column Content
Element ID	VARCHAR2(20)	Content Model Outline Position
Element Name	VARCHAR2(150)	Content Model Element Name
Description	VARCHAR2(1500)	Content Model Element Description

The data in this file provides the Content Model elements and descriptions. It is displayed in three (3) tab delimited fields with the columns named Element ID, Element Name, and Description. Each of the three (3) fields is represented by 1 row (line of text). There are a total of 564 records or rows of data in this file.

Data Example:

Element ID	Element Name	Description
1	Worker Characteristics	Worker Characteristics
1.A	Abilities	Enduring attributes of the individual that influence performance

1.A.1.a	Verbal Abilities	Abilities that influence the acquisition and application of verbal information in problem solving
1.A.1.a.1	Oral Comprehension	The ability to listen to and understand information and ideas presented through spoken words and sentences
1.A.1.a.2	Written Comprehension	The ability to read and understand information and ideas presented in writing
1.A.1.a.3	Oral Expression	The ability to communicate information and ideas in speaking so others will understand
1.A.1.a.4	Written Expression	The ability to communicate information and ideas in writing so others will understand

5) Scales Reference

Purpose: Provides a reference to the scale names and values

File Name: scales_reference

Column	Type	Column Content
Scale ID	CHAR (2)	Scale ID
Scale Name	VARCHAR2(50)	Scale Name
Minimum	NUMBER(1)	Scale Minimum
Maximum	NUMBER(3)	Scale Maximum

This file contains the Scale information by which the raw values are measured. It is displayed in four (4) tab delimited fields with the columns named Scale ID, Scale Name, Minimum, and Maximum. Each of the four (4) fields is represented by 1 row (line of text). There are a total of 62 records or rows of data in this file.

Data Example:

Scale ID	Scale Name	Minimum	Maximum
IM	Importance	1	5
IP	Impact of Decisions	1	7
JE	% Required for Job Entry	0	100
JS	Job Specialty	0	100
LC	Level of Competition	1	7
LE	Education Level Required	1	12
LI	Likelihood of Injury	0	7
LV	Level	0	7

6) Skills

Purpose: Provides each O*NET-SOC code (occupation) mapping to a Skill rating

File Name: Skills

Column	Type	Column Content
O*NET-SOC Code	VARCHAR2(10)	O*NET-SOC Code
Element ID	VARCHAR2(20)	Skill Outline Position in the Content Model Structure
Element Name	VARCHAR2(150)	Skill Name
Scale ID	CHAR (2)	Scale used in deriving value
Data Value	NUMBER(9,6)	Rating associated with the O*NET-SOC occupation

This file contains the Content Model Skills data associated with each O*NET-SOC occupation. It is displayed in five (5) tab delimited fields with the columns named O*NET-SOC Code, Element ID, Element Name, Scale ID, and Data Value. Each of the five (5) fields is represented by 1 row (line of text). There are a total of 63,000 records or rows of data in this file.

Data Example:

O*NET-SOC	Element ID	Element Name	Scale ID	Value
11-1011.01	2.A.1.a	Reading Comprehension	IM	4.5
11-1011.01	2.A.1.a	Reading Comprehension	LV	5.66
11-1011.01	2.A.1.b	Active Listening	IM	4.66
11-1011.01	2.A.1.b	Active Listening	LV	5.5
11-1011.01	2.A.1.c	Writing	IM	4.83
11-1011.01	2.A.1.c	Writing	LV	5.66
11-1011.01	2.A.1.d	Speaking	IM	4.83

7) Knowledge

Purpose: Provides each O*NET-SOC code (occupation) mapping to a Knowledge rating

File Name: Knowledge

Column	Type	Column Content
O*NET-SOC Code	VARCHAR2(10)	O*NET-SOC Code
Element ID	VARCHAR2(20)	Knowledge Outline Position in the Content Model Structure
Element Name	VARCHAR2(150)	Knowledge Name
Scale ID	CHAR (2)	Scale used in deriving value
Data Value	NUMBER(9,6)	Rating associated with the O*NET-SOC occupation

This file contains the Content Model Knowledge data associated with each O*NET-SOC occupation. It is displayed in five (5) tab delimited fields with the columns named O*NET-SOC, Element ID, Element Name, Scale ID, and Value. Each of the five (5) fields is represented by 1 row (line of text). There are a total of 59,400 records or rows of data in this file.

Data Example:

O*NET-SOC	Element ID	Element Name	Scale ID	Value
11-1011.01	2.C.1.a	Administration and Management	IM	5
11-1011.01	2.C.1.a	Administration and Management	LV	6
11-1011.01	2.C.1.b	Clerical	IM	2.66
11-1011.01	2.C.1.b	Clerical	LV	3.5
11-1011.01	2.C.1.c	Economics and Accounting	IM	3.83
11-1011.01	2.C.1.c	Economics and Accounting	LV	5
11-1011.01	2.C.1.d	Sales and Marketing	IM	2.83
11-1011.01	2.C.1.d	Sales and Marketing	LV	3.33
11-1011.01	2.C.1.e	Customer and Personal Service	IM	3
11-1011.01	2.C.1.e	Customer and Personal Service	LV	4

8) Ability

Purpose: Provides each O*NET-SOC code (occupation) mapping to an Ability rating

File Name: Ability

Column	Type	Column Content
O*NET-SOC Code	VARCHAR2(10)	O*NET-SOC Code
Element ID	VARCHAR2(20)	Ability Outline Position in the Content Model Structure
Element Name	VARCHAR2(150)	Ability Name
Scale ID	CHAR (2)	Scale used in deriving value
Data Value	NUMBER(9,6)	Rating associated with the O*NET-SOC occupation

This file contains the Content Model Ability data associated with each O*NET-SOC occupation. It is displayed in five (5) tab delimited fields with the columns named O*NET-SOC Code, Element ID, Element Name, Scale ID, and Data Value. Each of the five (5) fields is represented by 1 row (line of text). There are a total of 93,600 records or rows of data in this file.

Data Example:

O*NET-SOC	Element ID	Element Name	Scale ID	Value
11-1011.01	1.A.1.a.1	Oral Comprehension	IM	5

11-1011.01	1.A.1.a.1	Oral Comprehension	LV	5.66
11-1011.01	1.A.1.a.2	Written Comprehension	IM	4.83
11-1011.01	1.A.1.a.2	Written Comprehension	LV	5.66
11-1011.01	1.A.1.a.3	Oral Expression	IM	5
11-1011.01	1.A.1.a.3	Oral Expression	LV	5.66
11-1011.01	1.A.1.a.4	Written Expression	IM	4.83
11-1011.01	1.A.1.a.4	Written Expression	LV	5.33
11-1011.01	1.A.1.b.1	Fluency of Ideas	IM	4
11-1011.01	1.A.1.b.1	Fluency of Ideas	LV	4.5

9) Interest

Purpose: Provides each O*NET-SOC code (occupation) mapping to an Interest rating

File Name: Interest

Column	Type	Column Content
O*NET-SOC Code	VARCHAR2(10)	O*NET-SOC Code
Element ID	VARCHAR2(20)	Interest Outline Position in the Content Model Structure
Element Name	VARCHAR2(150)	Interest Name
Scale ID	CHAR (2)	Scale used in deriving value
Data Value	NUMBER(9,6)	Rating associated with the O*NET-SOC occupation

This file contains the Content Model Interest data associated with each O*NET-SOC occupation. It is displayed in five (5) tab delimited fields with the columns named O*NET-SOC Code, Element ID, Element Name, Scale ID, and Data Value. Each of the five (5) fields is represented by 1 row (line of text). There are a total of 8,100 records or rows of data in this file.

Data Example:

O*NET-SOC	Element ID	Element Name	Scale ID	Value
11-1011.01	1.B.1.a	Realistic	OI	2
11-1011.01	1.B.1.b	Investigative	OI	3
11-1011.01	1.B.1.c	Artistic	OI	2.33
11-1011.01	1.B.1.d	Social	OI	5
11-1011.01	1.B.1.e	Enterprising	OI	6.66
11-1011.01	1.B.1.f	Conventional	OI	5.66
11-1011.01	1.B.1.g	First Interest High-Point	IH	5

10) Work Value

Purpose: Provides each O*NET-SOC code (occupation) mapping to Work Value rating

File Name: WorkValue

Column	Type	Column Content
O*NET-SOC Code	VARCHAR2(10)	O*NET-SOC Code
Element ID	VARCHAR2(20)	Work Value Outline Position in the Content Model Structure
Element Name	VARCHAR2(150)	Work Value Name
Scale ID	CHAR (2)	Scale used in deriving value
Data Value	NUMBER(9,6)	Rating associated with the O*NET-SOC occupation

This file contains the Content Model Work Value data associated with each O*NET-SOC occupation. It is displayed in five (5) tab delimited fields with the columns named O*NET-SOC Code, Element ID, Element Name, Scale ID, and Data Value. Each of the five (5) fields is represented by 1 row (line of text). There are a total of 24,300 records or rows of data in this file.

Data Example:

O*NET-SOC	Element ID	Element Name	Scale ID	Value
11-1011.01	1.B.2.a	Achievement-Mean Extent	EN	4
11-1011.01	1.B.2.b	Working Conditions-Mean Extent	EN	3.87
11-1011.01	1.B.2.c	Recognition-Mean Extent	EN	3.78
11-1011.01	1.B.2.d	Relationships-Mean Extent	EN	3
11-1011.01	1.B.2.e	Support-Mean Extent	EN	2.95
11-1011.01	1.B.2.f	Independence-Mean Extent	EN	4
11-1011.01	1.B.2.a.1	Ability Utilization	EN	4.12
11-1011.01	1.B.2.a.2	Achievement	EN	3.87
11-1011.01	1.B.2.b.1	Activity	EN	4.12
11-1011.01	1.B.2.c.1	Advancement	EN	3.12

11) Work Context

Purpose: Provides each O*NET-SOC code (occupation) mapping to Work Context rating

File Name: WorkContext

Column	Type	Column Content
O*NET-SOC Code	VARCHAR2(10)	O*NET-SOC Code
Element ID	VARCHAR2(20)	Work Context Outline Position in the Content Model
Element Name	VARCHAR2(150)	Work Context Name
Scale ID	CHAR (2)	Scale used in deriving value
Data Value	NUMBER(9,6)	Rating associated with the O*NET-SOC occupation

This file contains the Content Model Work Context data associated with each O*NET-SOC occupation. It is displayed in five (5) tab delimited fields with the columns named O*NET-SOC Code, Element ID, Element Name, Scale ID, and Data Value. Each of the five (5) fields is represented by 1 row (line of text). There are a total of 34,200 records or rows of data in this file.

Data Example:

O*NET-SOC	Element ID	Element Name	Scale ID	Value
11-1011.01	4.C.1.a.4	Contact With Others	CX	3.998333
11-1011.01	4.C.1.b.1.f	Deal With External Customers	CX	3.666667
11-1011.01	4.C.1.b.1.g	Coordinate or Lead Others	CX	3.5
11-1011.01	4.C.1.c.1	Responsible for Others' Health & Safety	CX	1.75
11-1011.01	4.C.1.c.2	Responsibility for Outcomes and Results	CX	3.583333

12) Work Activity

Purpose: Provides each O*NET-SOC code (occupation) mapping to Work Activity rating

File Name: WorkActivity

Column	Type	Column Content
O*NET-SOC Code	VARCHAR2(10)	O*NET-SOC Code
Element ID	VARCHAR2(20)	Work Activity Outline Position in the Content Model
Element Name	VARCHAR2(150)	Work Activity Name
Scale ID	CHAR (2)	Scale used in deriving value
Data Value	NUMBER(9,6)	Rating associated with the O*NET-SOC occupation

This file contains the Content Model Work Activity data associated with each O*NET-SOC occupation. It is displayed in five (5) tab delimited fields with the columns named O*NET-SOC Code, Element ID, Element Name, Scale ID, and Data Value. Each of the five (5) fields is represented by 1 row (line of text). There are a total of 73,800 records or rows of data in this file.

Data Example:

O*NET-SOC	Element ID	Element Name	Scale ID	Value
11-1011.01	4.A.1.a.1	Getting Information	IM	4.66
11-1011.01	4.A.1.a.1	Getting Information	LV	5.83
11-1011.01	4.A.1.b.1	Identifying Objects, Actions, and Events	IM	4
11-1011.01	4.A.1.b.1	Identifying Objects, Actions, and Events	LV	4.5

13) Tasks

Purpose: Provides each O*NET-SOC code (occupation) mapping to several tasks associated with the occupation

File Name: Tasks

Column	Type	Column Content
O*NET-SOC Code	VARCHAR2(10)	O*NET-SOC Code
Title	VARCHAR2(150)	O*NET-SOC Title
Tasks	VARCHAR2(1000)	List of tasks associated with an occupation

This file contains the tasks associated with each O*NET-SOC occupation. It is displayed in three (3) tab delimited fields with the columns named O*NET-SOC Code, Title, Tasks. Each of the three (3) fields is represented by 1 row (line of text). There are a total of 10,266 records or rows of data in this file.

Data Example:

O*NET-SOC Code	Title	Tasks
11-1011.01	Government Service Executives	Directs organization charged with administering and monitoring regulated activities to interpret and clarify laws and ensure compliance with laws.
11-1011.01	Government Service Executives	Administers, interprets, and explains policies, rules, regulations, and laws to organizations and individuals under authority of commission or applicable legislation.
11-1011.01	Government Service Executives	Directs and coordinates activities of workers in public organization to ensure continuing operations, maximize returns on investments, and increase productivity.