

Introduction

This document provides a reference to the files available in the O*NET 5.0 **core** database. It serves as documentation for systems analysts and developers who plan to use the O*NET 5.0 database as a basis for developing other products, software, or system applications.

Each file in the O*NET 5.0 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 select 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 5.0 database. A list of columns is included, showing the column name used in the file, its datatype, and a description of the column 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 datatypes are taken from the Oracle DBMS :

CHAR: fixed-length character string
VARCHAR2: varying-length string
NUMBER: number
DATE: date

The NUMBER datatype is used in two different instances in the files. One is to represent a number without a decimal point, an integer, such as the Job Zone column. The other instance represents floating point ratings, such as the Data Value column, associated with the O*NET-SOC occupations. It is indicated as NUMBER(5,2) which means 5 total places are in the number with the possibility of 3 before the decimal point and 2 behind the decimal point.

File Descriptions

1) O*NET-SOC Data

Purpose: Provide O*NET-SOC Codes, titles, and definitions

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: Provide Job Zone data (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 contains 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: Provide Related Occupation data (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 contains 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: Provide 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

This file contains 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

5) Scales Reference

Purpose: Provide a reference to the scale names and values

File Name: scales_reference

Column	Type	Column Content
Scale ID	VARCHAR2(3)	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 70 records or rows of data in this file.

Data Example:

Scale ID	Scale Name	Minimum	Maximum
CT	Context Category	1	3
CTP	Context Category (Categories 1-3)	0	100
CX	Context	1	5
CXP	Context (Categories 1-5)	0	100
IM	Importance	1	5
LV	Level	0	7
OJ	On-The-Job Training (Categories 1-9)	0	100
PT	On-Site Or In-Plant Training (Categories 1-9)	0	100
RL	Required Level Of Education (Categories 1-12)	0	100
RW	Related Work Experience (Categories 1-11)	0	100

6) Skills

Purpose: Provide 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	VARCHAR2(3)	Scale used as the basis for rating
Data Value	NUMBER(5,2)	Rating associated with the O*NET-SOC occupation
Date	DATE	Date when data was updated
Source	VARCHAR2(30)	Source of the data

This file contains the Content Model Skills data associated with each O*NET-SOC occupation. It is displayed in seven (7) tab delimited fields with the columns named O*NET-SOC Code, Element ID, Element Name, Scale ID, Data Value, Date, and Source. Each of the seven (7) fields is represented by 1 row (line of text). There are a total of 63,140 records or rows of data in this file.

Data Example:

O*NET-SOC Code	Element ID	Element Name	Scale ID	Data Value	Date	Source
11-1011.01	2.A.1.a	Reading Comprehension	IM	4.5	3/2002	Legacy Analyst
11-1011.01	2.A.1.a	Reading Comprehension	LV	5.66	3/2002	Legacy Analyst

7) Knowledge

Purpose: Provide 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	VARCHAR2(3)	Scale used as the basis for rating
Data Value	NUMBER(5,2)	Rating associated with the O*NET-SOC occupation
Date	DATE	Date when data was updated
Source	VARCHAR2(30)	Source of the data

This file contains the Content Model Knowledge data associated with each O*NET-SOC occupation. It is displayed in seven (7) tab delimited fields with the columns named O*NET-SOC Code, Element ID, Element Name, Scale ID, Data Value, Date, and Source. Each of the seven (7) fields is represented by 1 row (line of text). There are a total of 59,532 records or rows of data in this file.

Data Example:

O*NET-SOC Code	Element ID	Element Name	Scale	Data Value	Date	Source
11-2022.00	2.C.10	Transportation	IM	2.89	3/2003	Incumbent
11-2022.00	2.C.10	Transportation	LV	2.56	3/2003	Incumbent

8) Ability

Purpose: Provide 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	VARCHAR2(3)	Scale used as the basis for rating
Data Value	NUMBER(5,2)	Rating associated with the O*NET-SOC occupation
Date	DATE	Date when data was updated
Source	VARCHAR2(30)	Source of the data

This file contains the Content Model Ability data associated with each O*NET-SOC occupation. It is displayed in seven (7) tab delimited fields with the columns named O*NET-SOC Code, Element ID, Element Name, Scale ID, Data Value, Date, and Source. Each of the seven (7) fields is represented by 1 row (line of text). There are a total of 93,808 records or rows of data in this file.

Data Example:

O*NET-SOC Code	Element ID	Element Name	Scale ID	Data Value	Date	Source
29-2061.00	1.A.1.a.4	Written Expression	IM	3.75	3/2003	Analyst
29-2061.00	1.A.1.a.4	Written Expression	LV	3	3/2003	Analyst

9) Interest

Purpose: Provide 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	VARCHAR2(3)	Scale used as the basis for rating
Data Value	NUMBER(5,2)	Rating associated with the O*NET-SOC occupation
Date	DATE	Date when data was updated
Source	VARCHAR2(30)	Source of the data

This file contains the Content Model Interest data associated with each O*NET-SOC occupation. It is displayed in seven (7) tab delimited fields with the columns named O*NET-SOC Code, Element ID, Element Name, Scale ID, Data Value Date, and Source. Each of the seven (7) fields is represented by 1 row (line of text). There are a total of 8,100 records or rows of data in this file.

Note: Interest ratings are presented as two scales: OI reports the level of each interest and IH points to the location of the preceding three highest ratings. To better understand the scales, refer to the report, [Development of Occupational Interest Profiles](#), on the O*NET Consortium site (Home > Products > Research and Technical Reports).

Data Example:

O*NET-SOC Code	Element ID	Element Name	Scale ID	Data Value	Date	Source
11-1011.01	1.B.1.a	Realistic	OI	2	3/2002	Legacy Analyst
11-1011.01	1.B.1.b	Investigative	OI	3	3/2002	Legacy Analyst

10) Work Value

Purpose: Provide each O*NET-SOC code (occupation) mapping to a 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	VARCHAR2(3)	Scale used as the basis for rating
Data Value	NUMBER(5,2)	Rating associated with the O*NET-SOC occupation
Date	DATE	Date when data was updated
Source	VARCHAR2(30)	Source of the data

This file contains the Content Model Work Value data associated with each O*NET-SOC occupation. It is displayed in seven (7) tab delimited fields with the columns named O*NET-SOC Code, Element ID, Element Name, Scale ID, Data Value, Date, and Source. Each of the seven (7) fields is represented by 1 row (line of text). There are a total of 24,300 records or rows of data in this file.

Note: Work Value ratings are presented as two types of scores: work needs and aggregates of these needs, which are labeled "Mean Extent." To better understand the scales, refer to the report, [Determining the Occupational Reinforcer Patterns for O*NET Occupational Units](#), on the O*NET Consortium site (Home > Products > Research and Technical Reports).

Data Example:

O*NET-SOC Code	Element ID	Element Name	Scale ID	Data Value	Date	Source
11-1011.01	1.B.2.a	Achievement-Mean Extent	EN	4	3/2002	Legacy Analyst
11-1011.01	1.A.1.a.1	Ability Utilization	EN	4.12	3/2002	Legacy Analyst

11) Work Context

Purpose: Provide each O*NET-SOC code (occupation) mapping to a 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	VARCHAR2(3)	Scale used as the basis for rating
Category	NUMBER(5)	Percent frequency category (Refer to Survey Booklet Location Reference)
Data Value	NUMBER(5,2)	Rating associated with the O*NET-SOC occupation
Date	DATE	Date when data was updated
Source	VARCHAR2(30)	Source of the data

This file contains the Content Model Work Context data associated with each O*NET-SOC occupation. It is displayed in eight (8) tab delimited fields with the columns named O*NET-SOC Code, Element ID, Element Name, Scale ID, Category, Data Value, Date, and Source. Each of the eight (8) fields is represented by 1 row (line of text). There are a total of 50,476 records or rows of data in this file.

Data Example:

O*NET-SOC Code	Element ID	Element Name	Scale	Category	Data Value	Date	Source
17-1012.00	4.C.3.d.8	Duration of Typical Work Week	CT	n/a	2.38	3/2003	Incumbent
17-1012.00	4.C.3.d.8	Duration of Typical Work Week	CTP	1	0	3/2003	Incumbent
17-1012.00	4.C.3.d.8	Duration of Typical Work Week	CTP	2	62.3	3/2003	Incumbent
17-1012.00	4.C.3.d.8	Duration of Typical Work Week	CTP	3	37.7	3/2003	Incumbent

12) Work Activity

Purpose: Provide each O*NET-SOC code (occupation) mapping to a 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	VARCHAR2(3)	Scale used as the basis for rating
Data Value	NUMBER(5,2)	Rating associated with the O*NET-SOC occupation
Date	DATE	Date when data was updated
Source	VARCHAR2(30)	Source of the data

This file contains the Content Model Work Activity data associated with each O*NET-SOC occupation. It is displayed in seven (7) tab delimited fields with the columns named O*NET-SOC Code, Element ID, Element Name, Scale ID, Data Value, Date, and Source. Each of the seven (7) fields is represented by 1 row (line of text). There are a total of 73,964 records or rows of data in this file.

Data Example:

O*NET-SOC Code	Element ID	Element Name	Scale ID	Data Value	Date	Source
11-1011.01	4.A.1.a.1	Getting Information	IM	4.66	3/2002	Legacy Analyst
11-1011.01	4.A.1.a.1	Getting Information	LV	5.83	3/2002	Legacy Analyst

13) Tasks

Purpose: Provide 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
Task ID	NUMBER(8)	Identifies each Task containing data ratings
Task	VARCHAR2(1000)	Task statement associated with an occupation
Task Type	VARCHAR2(12)	Core or Supplemental
Incumbents Responding	NUMBER(4)	Number of incumbents providing task information
Percent Relevant	NUMBER(5,2)	Relevance of each task to O*NET-SOC occupation
Mean Importance	NUMBER(5,2)	Rating associated with each task of O*NET-SOC occupation
Percent Frequency: Yearly Or Less	NUMBER(5,2)	Percent frequency category rating for each task of O*NET-SOC occupation
Percent Frequency: More Than Yearly	NUMBER(5,2)	Percent frequency category rating for each task of O*NET-SOC occupation
Percent Frequency: More Than Monthly	NUMBER(5,2)	Percent frequency category rating for each task of O*NET-SOC occupation
Percent Frequency: More Than Weekly	NUMBER(5,2)	Percent frequency category rating for each task of O*NET-SOC occupation
Percent Frequency: Daily	NUMBER(5,2)	Percent frequency category rating for each task of O*NET-SOC occupation
Percent Frequency: More Than Daily	NUMBER(5,2)	Percent frequency category rating for each task of O*NET-SOC occupation
Percent Frequency: Hourly Or More	NUMBER(5,2)	Percent frequency category rating for each task of O*NET-SOC occupation
Date	DATE	Date when data was updated
Source	VARCHAR2(30)	Source of the data

This file contains the tasks associated with each O*NET-SOC occupation. It is displayed in sixteen (16) tab delimited fields with the columns named as in the cells listed under Column above. Each of the sixteen (16) fields is represented by 1 row (line of text). There are a total of 13,440 records or rows of data in this file.

Data Example:

O*NET-SOC Code	Task ID	Task	Task Type	Incumbents Responding	Percent Relevant	Mean Importance
17-1012.00	141	Prepare site plans, specifications, and cost estimates for land development, coordinating arrangement of existing and proposed land features and structures.	Core	73	96.73	4.48
17-1012.00	142	Confer with clients, engineering personnel, and architects on overall program.	Core	74	100	4.42
17-1012.00	143	Compile and analyze data on conditions, such as location, drainage, and location of structures for environmental reports and landscaping plans.	Core	74	98	4.22
17-1012.00	144	Inspect landscape work to ensure compliance with specifications, approve quality of materials and work, and advise client and construction personnel.	Core	74	98.97	4.04

Percent Frequency: Yearly Or Less	Percent Frequency: More Than Yearly	Percent Frequency: More Than Monthly	Percent Frequency: More Than Weekly	Percent Frequency: Daily	Percent Frequency: More Than Daily	Percent Frequency: Hourly Or More
0	0.03	27.08	13.87	24.32	5.84	28.86
1.77	2.08	20.61	10.43	37.22	17.96	9.94
5.28	11.15	12.88	30.51	18.98	3.42	17.78
1.03	25.51	30.93	27.14	1.81	1.2	12.38

Continuation of previous Task Data Example table:

Date	Source
3/2003	Incumbent
3/2003	Incumbent
3/2003	Incumbent
3/2003	Incumbent

14) Education, Training, and Experience

Purpose: Provide each O*NET-SOC code (occupation) mapping to an Education, Training, or Experience rating

File Name: EducTrainExp

Column	Type	Column Content
O*NET-SOC Code	VARCHAR2(10)	O*NET-SOC Code
Element ID	VARCHAR2(20)	Outline Position in the Content Model Structure
Element Name	VARCHAR2(150)	Name associated with Education, Training and Experience
Scale ID	VARCHAR2(3)	Scale used as the basis for rating
Category	NUMBER(5)	Percent frequency category (Refer to Survey Booklet Location Reference)
Data Value	NUMBER(5,2)	Rating associated with the O*NET-SOC occupation
Date	DATE	Date when data was updated
Source	VARCHAR2(30)	Source of the data

This file contains the percent frequency data associated with Education, Training and Experience Content Model elements. It is displayed in eight (8) tab delimited fields with the columns named O*NET-SOC Code, Element ID, Element Name, Scale ID, Category, Data Value, Date, and Source. Each of the eight (8) fields is represented by 1 row (line of text). There are a total of 2,214 records or rows of data in this file.

Data Example:

O*NET-SOC Code	Element ID	Element Name	Scale	Category	Data Value	Date	Source
11-2022.00	2.D.1	Required Level of Education	RL	1	0	3/2003	Incumbent
11-2022.00	2.D.1	Required Level of Education	RL	2	18.97	3/2003	Incumbent
11-2022.00	2.D.1	Required Level of Education	RL	3	7.36	3/2003	Incumbent
11-2022.00	2.D.1	Required Level of Education	RL	4	48.04	3/2003	Incumbent
11-2022.00	2.D.1	Required Level of Education	RL	5	2.23	3/2003	Incumbent
11-2022.00	2.D.1	Required Level of Education	RL	6	10.81	3/2003	Incumbent
11-2022.00	2.D.1	Required Level of Education	RL	7	0	3/2003	Incumbent
11-2022.00	2.D.1	Required Level of Education	RL	8	12.59	3/2003	Incumbent
11-2022.00	2.D.1	Required Level of Education	RL	9	0	3/2003	Incumbent
11-2022.00	2.D.1	Required Level of Education	RL	10	0	3/2003	Incumbent
11-2022.00	2.D.1	Required Level of Education	RL	11	0	3/2003	Incumbent
11-2022.00	2.D.1	Required Level of Education	RL	12	0	3/2003	Incumbent

15) Work Styles

Purpose: Provide each O*NET-SOC code (occupation) mapping to a Work Styles rating

File Name: WorkStyles

Column	Type	Column Content
O*NET-SOC Code	VARCHAR2(10)	O*NET-SOC Code
Element ID	VARCHAR2(20)	Work Styles Outline Position in the Content Model
Element Name	VARCHAR2(150)	Work Styles Name
Scale ID	VARCHAR2(3)	Scale used as the basis for rating
Data Value	NUMBER(5,2)	Rating associated with the O*NET-SOC occupation
Date	DATE	Date when data was updated
Source	VARCHAR2(30)	Source of the data

This file contains the Content Model Work Styles data associated with each O*NET-SOC occupation. It is displayed in seven(7) tab delimited fields with the columns named O*NET-SOC Code, Element ID, Element Name, Scale ID, Data Value, Date, and Source. Each of the seven (7) fields is represented by 1 row (line of text). There are a total of 864 records or rows of data in this file.

Data Example:

O*NET-SOC Code	Element ID	Element Name	Scale ID	Data Value	Date	Source
11-2022.00	1.C.1.a	Achievement/Effort	IM	2.93	3/2003	Incumbent
11-2022.00	1.C.1.b	Persistence	IM	3.39	3/2003	Incumbent
11-2022.00	1.C.1.c	Initiative	IM	3.2	3/2003	Incumbent

16) O*NET Survey Booklet Location Reference

Purpose: Provide O*NET Content Model elements

File Name: Survey_Booklet_Location_Reference

Column	Type	Column Content
Element ID	VARCHAR2(20)	Content Model Outline Position
Element Name	VARCHAR2(150)	Content Model Element Name
Survey Item Number	VARCHAR2(4)	Survey Booklet Location Number

This file contains the Content Model elements that have corresponding survey item numbers in the Survey Booklet. It is displayed in three (3) tab delimited fields with the columns named Element ID, Element Name, and Survey Item Number. Each of the three (3) fields is represented by 1 row (line of text). There are a total of 238 records or rows of data in this file.

Note: Each survey item number corresponds to a survey question in the O*NET Questionnaires, found on the O*NET Consortium site (Home > Data Collection > OMB Clearance). The values for incumbent data categories are percentage ratings corresponding to survey question options. Match the element ID(s) from data files to a survey item number using this file.

Data Example:

Element ID	Element Name	Survey Item Number
1.A.1.a.1	Oral Comprehension	AB01
1.A.1.a.2	Written Comprehension	AB02
1.A.1.a.3	Oral Expression	AB03