

O*NET 15.1 Database (SQL Format)

February 2011

Introduction

This document provides notes specific to the SQL format release of the O*NET 15.1 database. For comprehensive information on the contents, structure, and relationship of the database files, and a history of changes in each database release, please consult the O*NET Data Dictionary 15.1, available at:

http://www.onetcenter.org/dl_files/DataDictionary15_1.pdf

New in 15.1

The O*NET 15.1 database is the first to feature the O*NET-SOC 2010 taxonomy, which is compatible with the recently released 2010 SOC standard. This release does not feature new data from the O*NET Data Collection Program; the next set of updated occupations will be delivered in O*NET 16.0, expected in July 2011.

File Structure

The SQL format release represents the O*NET database as a set of 22 relational database tables. Each text file in the release contains SQL statements describing the structure and contents of a single table. For information on the purpose and structure of each table, consult the O*NET Data Dictionary 15.1. See also the section “Data Dictionary Supplemental Notes” below.

Primary and foreign keys are specified to reflect the relationships between O*NET database tables. Some database systems enforce these relationships, and require tables to be loaded in a particular order. Each SQL file is preceded by a number; to avoid errors, load each file in numeric order. Consult your database system documentation for more information on key constraints.

Loading SQL Files

Database 15.1 for Microsoft SQL Server: O*NET database files can be loaded using the **SQL Server Management Studio** utility. Open each SQL file in that utility, select the destination database in the SQL Editor toolbar, and click **Execute** in the SQL Editor toolbar.

Database 15.1 for MySQL: O*NET database files can be loaded using the mysql utility. Use the source command to import each file. For example, to load the Content Model Reference table, you might enter the command:

```
source C:\db_15_1_mysql\01_content_model_reference.sql
```

Database 15.1 for Oracle: O*NET database files can be loaded using the **SQL Plus** utility. Use the **@** command to import each file. For example, to load the Content Model Reference table, you might enter the command:

```
@C:\db_15_1_oracle\01_content_model_reference.sql
```

Compatibility

The SQL format release has been tested on the following database systems. The files may be compatible with other products or versions, but consult your database system documentation for further information.

Database 15.1 for Microsoft SQL Server:

- SQL Server 2008 R2

Database 15.1 for MySQL:

- MySQL 4.1.22
- MySQL 5.1.51
- PostgreSQL 8.4.4
- SQLite 3.7.2
- Firebird 2.0.3

Database 15.1 for Oracle:

- Oracle 11g, version 11.2.0.1.0

Data Dictionary Supplemental Notes

Developers should keep the following SQL-specific items in mind when consulting the O*NET Data Dictionary:

- To conform to SQL standards, column and table names have been reformatted. For example, the column “O*NET-SOC Code” is formatted as “onetsoc_code” in the SQL files. The column “Date” has been renamed to “date_updated” to avoid conflict with a reserved SQL keyword.
- For maximum compatibility with different database systems, the DECIMAL data type has been used for all numeric columns. A column listed as “FLOAT(4,2)” in the Data Dictionary is represented as “DECIMAL(4,2)” in the SQL files. A column listed as “INTEGER(3)” is represented as “DECIMAL(3,0)” in the SQL files.
- Columns that represent dates are represented with the SQL DATE data type. While this data type specifies a year, month, and day, only the year and month are significant for O*NET metadata purposes.