Quentin Sager Consulting, Inc.

[ZIP Plus 4 Multi-County Database]

Standard Edition reference manual

This document contains the data set and file specifications for the ZIP Plus 4 Multi-County Database Standard Edition. These specifications are subject to change without notice. The data it describes is furnished under a license agreement, and may be used or copied only in accordance with the terms of the license agreement.

Standard Edition Reference Manual
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File Names and Descriptions

Each table *(file)* in the ZIP Plus 4 Multi-County Database Standard Edition is delivered in flat, delimited text file format (commonly referred to as comma-separated-value or CSV format). The database is easily imported to and accessed through most contemporary database engines including (but not limited to) MySQL, PostgreSQL, SQLite, Oracle, IBM DB2, Microsoft SQL Server, Microsoft Access, or similar tool.

The data should be imported as Unicode UTF-8 text. For each file in the ZIP Plus 4 Multi-County Database Standard Edition; the first row contains field names (column headers), fields are terminated by a single comma "," character, fields are optionally enclosed using a double quote character, and lines (rows) are terminated with a two character carriage return line feed (CR + LF) sequence.

Record Layouts and Field Descriptions

FILE: zip4county.csv

Field	Description
zip	**ZIP Code** The 5-digit code that identifies a specific geographic delivery area. ZIP Codes can represent an area within a state, or a single building or company that has a very high mail volume.
plus4_lo	**+4 Low Number** The beginning 4-digit ZIP Plus 4 number for the current "Plus 4" range.
plus4_hi	**+4 High Number** The ending 4-digit ZIP Plus 4 number for the current "Plus 4" range.
zip_type	**ZIP Classification Code** Identifies the type of ZIP area a 5-digit ZIP Code serves. • **M** – Military ZIP Code • **P** – ZIP Code having only Post Office boxes • **U** – Unique ZIP code, ZIP assigned to a single organization. • **blank** – Standard ZIP with many addresses assigned to it.
city	**Preferred Last-Line City State Name** The USPS preferred last line city, municipality or Post Office name for a ZIP Code.
state	**State Abbreviation** The USPS 2-character abbreviation for the name of the state, U.S. territory, or armed forces ZIP Code designation.
fips	**FIPS County Code** The Federal Information Processing Series (FIPS) county code is a unique 5-digit code used to identify every county or equivalent area. This code is technically the concatenation of the FIPS 2-digit state code followed by the FIPS 3-digit county code.
utc	**Time Zone Offset** Standard time *Coordinated Universal Time* (UTC) offset for the geographic delivery area identified by the ZIP Code. Formatted +/-HH:MM
dst	**Daylight Saving Time** Single Y/N value indicating whether Daylight Saving Time (DST) is recognized for the geographic area identified by the ZIP Code.

olson	**Olson Time Zone ID** Unique time zone name from the *Internet Assigned Numbers Authority* (IANA) time zone database. This database is also known as the *tz database*, *tzdata*, and *Olson database*.

FILE: county.csv

Field	Description
fips	**FIPS County Code** The Federal Information Processing Series (FIPS) county code is a unique 5-digit code used to identify every county or equivalent area. This code is technically the concatenation of the FIPS 2-digit state code followed by the FIPS 3-digit county code.
county	**County Name** The common name of the county or equivalent area.
state	**State Abbreviation** The USPS 2-character abbreviation for the name of the state, U.S. territory, or armed forces ZIP Code designation.

FILE: state.csv

Field	Description
State_Abbr	**State Abbreviation** USPS 2-character state, territory or equivalent abbreviation.
State_FIPS	**State FIPS Code** Unique 2-digit Federal Information Processing Series (FIPS) state code.
State_Name	**State Name** The common state, territory or equivalent name.
State_Formal	**State Formal Name** The formal state, territory or equivalent name.

SQL Scripts and Schemas

MySQL

```
CREATE TABLE `zipcode` (
      `zip` char(5) NOT NULL,
      `plus4_lo` char(4) NOT NULL,
      `plus4_hi` char(4) NOT NULL,
      `zip_type` char(1) DEFAULT NULL,
      `city` varchar(128) NOT NULL,
      `state` char(2) NOT NULL,
      `fips` char(5) DEFAULT NULL,
      `utc` char(6) DEFAULT NULL,
      `dst` char(1) DEFAULT NULL,
      `olson` varchar(128) DEFAULT NULL,
      PRIMARY KEY (`zip`,`plus4_lo`)
) ENGINE=MyISAM DEFAULT CHARSET=utf8;

CREATE TABLE `county` (
      `fips` char(5) NOT NULL,
      `county` varchar(128) NOT NULL,
      `state` char(2) NOT NULL,
      PRIMARY KEY (`fips`)
) ENGINE=MyISAM DEFAULT CHARSET=utf8;

CREATE TABLE `state` (
      `State_Abbr` char(2) NOT NULL,
      `State_FIPS` char(2) NOT NULL,
      `State_Name` varchar(128) NOT NULL,
      `State_Formal` varchar(128) NOT NULL,
      PRIMARY KEY (`State_Abbr`)
) ENGINE=MyISAM DEFAULT CHARSET=utf8;
```

Microsoft SQL

```
CREATE TABLE zipcode
      (
      zip CHAR(5) NOT NULL,
      plus4_lo CHAR(4) NOT NULL,
      plus4_hi CHAR(4) NULL,
      zip_type CHAR(1) NULL,
      city VARCHAR(128) NULL,
      state CHAR(2) NULL,
      fips CHAR(5) NULL,
      utc CHAR(6) NULL,
      dst CHAR(1) NULL,
      olson VARCHAR(128) NULL,
      CONSTRAINT PK_zipcode PRIMARY KEY CLUSTERED (zip ASC, plus4_lo ASC) ON
[PRIMARY]
      )
GO

CREATE TABLE county
      (
      fips CHAR(5) NOT NULL,
      county VARCHAR(128) NULL,
      state CHAR(2) NULL,
      CONSTRAINT PK_zipcode PRIMARY KEY CLUSTERED (fips ASC) ON [PRIMARY]
      )
GO

CREATE TABLE state
      (
      State_Abbr CHAR(2) NOT NULL,
      State_FIPS CHAR(2) NULL,
      State_Name VARCHAR(128) NULL,
      State_Formal VARCHAR(128) NULL,
      CONSTRAINT PK_zipcode PRIMARY KEY CLUSTERED (State_Abbr ASC) ON [PRIMARY]
      )
GO
```

ORACLE

```
CREATE TABLE  "zipcode" (
      "zip" CHAR(5) NOT NULL ENABLE,
      "plus4_lo" CHAR(4) NOT NULL ENABLE,
      "plus4_hi" CHAR(4),
      "zip_type" CHAR(1),
      "city" VARCHAR(128),
      "state" CHAR(2),
      "fips" CHAR(5),
      "utc" CHAR(6),
      "dst" CHAR(1),
      "olson" VARCHAR(128),
      CONSTRAINT "zipcode_PK" PRIMARY KEY ("zip", "plus4_lo") ENABLE
      );

CREATE TABLE  "county" (
      "fips" CHAR(5) NOT NULL ENABLE,
      "county" VARCHAR(128),
      "state" CHAR(2),
      CONSTRAINT "zipcode_PK" PRIMARY KEY ("fips") ENABLE
      );

CREATE TABLE  "state" (
      "State_Abbr" CHAR(2) NOT NULL ENABLE,
      "State_FIPS" CHAR(2),
      "State_Name" VARCHAR(128),
      "State_Formal" VARCHAR(128),
      CONSTRAINT "zipcode_PK" PRIMARY KEY ("State_Abbr") ENABLE
      );
```