Attributes (in English)

`https://data.stadt-zuerich.ch/dataset/vbz-fahrzeiten-ogd`

Zurich R User Meetup Group

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Notes and abbreviations

- For consistency, we do not differentiate between bus / tram stops and stations. We always define it as **station**.

- Given **in seconds** means given in seconds after midnight.

- One trip accounts the travel time from the first stop to the terminal stop.

- **VBZ**: Zurich Public Transport / Verkehrsbetriebe Zürich

Attributes

- **linie**: line number / Liniennummer
  The VBZ internally used line number (partly not identical to the published line number).
  data type: (smallint, 3).

- **richtung**: Direction / Richtung
  The direction of a ride. levels: 1 / 2.
  data type: (tinyint, 1).

- **betriebsdatum**: Operating date / Betriebsdatum
  The date for the event. Working day: 5am to 01:30 am (next day).
  data type: (datetime, 8).

- **fahrzeug**: vehicle number / Fahrzeugnummer
  The VBZ internally used vehicle number.
  data type: (int, 10).

- **kurs**: route number / Kursnummer
  The VBZ internally used route number.
  data type: (tinyint, 2).

- **seq_von**: sequence of the "from"-station / Sequenz der Haltestelle von
  The sequence of the "from"-station of a trip.
  data type: (int, 10).

- **halt_diva_von**: station number DIVA "from" / Haltestellennummer DIVA von
  The VBZ internally used station number DIVA of the "from"-station.
  data type: (int, 10).

- **halt_punkt_diva_von**: number for stopping point "from" / Haltepunktnummer from
  The VBZ internally used number for the stopping point "from".
  data type: (int, 10).

- **halt_kurz_von1**: short code for "from"-station / Kurzcode Haltestelle from
  The VBZ internally used abbreviation for the station number of the "from"-station.
  data type: (varchar(8)).

- **datum_von**: date of / Datum von

  The date for the event of the "from"-station. Working day: 5am to 01:30 am (next day).

  data type: (datetime, 8).

- **soll_an_von**: scheduled arrival time "from" / Sollankunft von

  The scheduled arrival time at the "from"-station in seconds.

  data type: (int, 10).

- **ist_an_von**: real arrival time "from" / Istankunft von

  The real arrival time at the "from"-station in seconds.

  data type: (int, 10).

- **soll_ab_von**: scheduled departure time "from" / Sollabfahrt von

  The scheduled departure time at the "from"-station in seconds.

  data type: (int, 10).

- **ist_ab_von**: real departure time "from" / Istabfahrt von

  The real departure time at the "from"-station in seconds.

  data type: (int, 10).

- **seq_nach**: sequence of the "to"-station / Sequenz der Haltestelle nach

  The sequence of the "to"-station of a trip.

  data type: (int, 10).

- **halt_diva_nach**: station number DIVA "to" / Haltestellennummer DIVA nach

  The VBZ internally used station number DIVA for the "to"-station.

  data type: (int, 10).

- **halt_punkt_diva_nach**: stopping point DIVA "to" / Haltepunktnummer DIVA nach (technisch:)

  The VBZ internally used number for the stopping point DIVA of the "to"-station.

  data type: (int, 10).

- **halt_kurz_nach1**: short code for "to"-station / Kurzcode Haltestelle nach

  The VBZ internally used abbrevation for the station number of the "to"-station.

  data type: (varchar(8)).

- **datum_nach**: date to / Datum nach

  The date for the event of the "to"-station. Working day: 5am to 01:30am (next day).

  data type: (datetime, 8).

- **soll_an_nach**: scheduled arrival time "to" / Sollankunft nach

  The scheduled arrival time at the "to"-station in seconds.

  data type: (int, 10).

- **ist_an_nach1**: real arrival time "to" / Istankunft nach

  The real arrival time at the "to"-station in seconds.

  data type: (int, 10).

- **soll_ab_nach**: scheduled departure time "to" / Sollabfahrt nach

  The scheduled departure time at the "to"-station in seconds.

  data type: (int, 10).

- **ist_ab_nach**: real departure time "to" / Istabfahrt nach

  The real departure time at the "to"-station in seconds.

  data type: (int, 10).

- **fahrt_id**: trip ID / Fahrt ID

  The VBZ internally used trip ID per day of operation. One trip accounts the travel time from the first stop to the terminal stop.

  data type: (bigint, 19).

- **fahrweg_id**: route ID / Fahrweg ID

  The VBZ internally used foreign key for the "Fahrwegstamm" table.

  data type: (bigint, 19).

- **fw_no**: route number / Fahrwegnummer

  The VBZ internally used route number.

  data type: (smallint, 5).

- **fw_typ**: route type / Fahrwegtyp

  The VBZ internally used route type.

  data type: (tinyint, 1).

- **fw_kurz**: short code for route / Fahrweg Kurzcode

  The VBZ internally used abbreviation for route.

  data type: (varchar(6)).

- **fw_lang**: route labelling / Fahrwegbezeichnung

  The VBZ internally used route labelling.

  data type: (varchar(40)).

- **umlauf_von**: circulation number / Umlaufnummer

  The VBZ internally used ID for a circulation of trips per day of operation. In other words, all the trips that are made by the one vehicle during the time from leaving the depot until returning to the depot have the same circulation number.

  data type: (bigint, 19).

- **halt_id_von**: station ID "from" / Halt ID von

  The VBZ internally used foreign key for the "Haltestellenstamm" table (halt_id). Assignment of the "from"-station.

  data type: (bigint, 19).

- **halt_id_nach**: station ID "to" / Halt ID nach

  The VBZ internally used foreign key for the "Haltestellenstamm" table (halt_id). Assignment of the "to"-station.

  data type: (bigint, 19).

- **halt_punkt_id_von**: stopping point ID "from" / Haltepunkt ID von

  The VBZ internally used foreign key for the "Haltepunktstamm" table (halt_punkt_id). Assignment of the "from"-station.

  data type: (bigint, 19).

- **halt_punkt_id_nach**: stopping point ID "to" / Haltepunkt ID nach

  The VBZ internally used foreign key for the "Haltepunktstamm" table (halt_punkt_id). Assignment of the "to"-station.

  data type: (bigint, 19).

- **halt_punkt_id**: stopping point ID / Haltepunkt ID

  Key field station.

  data type: (bigint, 19).

- **halt_punkt_diva**: stopping point number DIVA / Haltepunktnummer DIVA

  The VBZ internally used stopping point number (redundant in Fahrzeiten_SOLL_IST). Values: 0 – 99.

  data type: (int, 2).

- **halt_id**: station ID / Haltestelle ID (technisch:)

  Key field station ID.

  data type: (bigint, 19).

- **GPS_Latitude**: y-coordinate / Y-Koordinate

  The y-coordinate (geographic latitude) of the station in WGS84.

  data type: (int, 10).

- **GPS_Longitude**: x-coordinate / X-Koordinate

  The x-coordinate (geographic longitude) of the station in WGS84.

  data type: (int, 10).

- **GPS_Bearing**: compass' direction / Kompassrichtung

  The compass' direction of the station.

  data type: (int, 10).

- **halt_punkt_ist_aktiv**: status of the station / Haltepunktstatus

  Status of the station active / inactive. levels: true / false.

  data type: (boolean: bit, 1).

- **halt_id1**: station ID / Haltestelle ID

  Key variable of "Haltestelle" table

  data type: (bigint, 19).

- **halt_diva**: station number DIVA / Haltestellennummer DIVA

  The VBZ internally used station number DIVA.

  data type: (int, 10).

- **halt_kurz**: short code for station / Haltestelle Kurzcode

  The VBZ internally used abbreviation for the station number.

  data type: (varchar(8)).

- **halt_lang**: station description / Haltestelle Beschreibung

  Description of the station.

  data type: (varchar(40)).

- **halt_ist_aktiv**: station status / Haltstellenstatus

  Station active / inactive. levels: true / false.

  data type: (boolean: bit, 1).