# WIKIDATA Query Service in Brief

## Triple statement:

?subject  ?property  ?object .

## Important prefixes

| item | property | variable |
| --- | --- | --- |
| wd: | wdt: | ? |
| wd:Q7186 | wdt:P101 | ?item |

| Property's statement | Statement's object prop. | Statement's qualifier |
| --- | --- | --- |
| p: | ps: | pq: |
| p:P101 | ps:P101 | pq:P101 |

Query helper

Write the query

Choose a language

Examples

Press **ctrl + space** while typing to get search suggestions, esp. after prefixes

Share a link

Run the query

```
1 SELECT ?item WHERE {
2 ?item wdt:P31 wd:huma
3 SERVICE wikibase:       se:language "[
4 }
5 LIMIT 200
```

human (Q5) common name of
Homo sapiens (...978631),
unique extant species of the
genus Homo
human settlement (Q486972)
community of any size,
which people live
Mbarara Airport (Q65282
airport
...o sapiens (Q15978631)
cies of mammal
...ma (Q6788009) undefined
Fūma (Q26229820) Japanese
family name (風間)

**WIKIDATA**

## Important functions

**SELECT** -- calls variables to be displayed

**DISTINCT** -- after SELECT, removes duplicate rows

**WHERE** { .... } -- contains the query criteria

#defaultview: - selects a default view for results

### Inside  WHERE { .... }
**OPTIONAL** { .... } -- contains optional statements that can be empty in the results

**MINUS** { .... } -- removes content that meets a criteria

**FILTER** (....) -- uses logic to filter results

**SERVICE** wikibase:label { bd:serviceParam wikibase:language "[AUTO_LANGUAGE], en". }
        -- calls a label service activated with camelcase variables (i.e **SELECT** ?itemLabel )

### After WHERE { .... }
**LIMIT**  --  provides a maximum number of results

**ORDER BY** - selects variable(s) by which to order results

## Important symbols

**.** - terminates a triple
        Example: ?item  wdt:P31 wd:Q5 **.**

**;** - ties several properties to a subject.
        Example: ?item  wdt:P31 wd:Q5 **;**
                        wdt:P106 wd:Q42973 **.**

**/** - joins two properties
    Example:
        ?item  wdt:P31 wd:Q5 **.**
        ?item wdt:P106**/**wdt:P279 wd:Q42973.

**\*** - recursively extends last property
    Example:
        ?item  wdt:P31 wd:Q5 **.**
        ?item wdt:P106/wdt:P279**\*** wd:Q42973.

**#** -  comments out subsequent text
    Example:
        ?item  wdt:P31 wd:Q5 **.** #instance of human

## Tools using queries
PetScan – powerful toolbox for creating lists based on categories and Wikidata

WDFIST -- tool for freely licensed images for Wikidata items

Histropedia - Timeline building tool

ListeriaBot - generates on-wiki lists based on queries  uses local versions of Template:Wikidata list and Template:Wikidata list end

## Finding help
Wikidata:Request a query - on-wiki request forum

@Wikidatafacts – twitter account supported by a volunteer who can help create queries