

WIKIDATA

**Welcome to the Wikidata Online
Training Sessions - 3rd Session**

Hello - Namaskaram - Satsriakal

Meet to the Trainers: Tulspal Kaur & Satpal Dandiwal

Recap & Tasks from last Week:

- Try a few labels, Descriptions and Alias

- Link the articles with the Wikidata -

<https://sat.wikipedia.org/wiki/Special:UnconnectedPages?namespace=0>

- Navigate and then Translate the Wikidata Tour in Santali -

<https://www.wikidata.org/wiki/Wikidata:Tours>

- Translate the Wikidata Introduction - <https://www.wikidata.org/wiki/Wikidata:Introduction>

- Need to complete previous task :)

- Update the existing Statements for WD items:

https://www.wikidata.org/wiki/Wikidata:WikiProject_Q5/Authors_by_language/Santali

- Try to create New Wikidata item

03 Module: Query and Tools

Introduction to Querying

- Query is a request made to the database for getting the information from it.
- Wikidata Query Service, is a powerful tool to provide insight into contents in Wikidata.
- Wikidata uses a query language called SPARQL (pronounced "sparkle")
- SPARQL is a query language for knowledge graphs, which is perfect for linked data.

Wikidata Query

`?item ?wdt ?wd`

Three-part structure that connects **an item, a property and a value.**

Prefixes Used

PREFIX **wd**: <<http://www.wikidata.org/entity/>>

PREFIX **wdt**: <<http://www.wikidata.org/prop/direct/>>

PREFIX **rdfs**: <<http://www.w3.org/2000/01/rdf-schema#>>

PREFIX **wds**: <<http://www.wikidata.org/entity/statement/>>

PREFIX **wdv**: <<http://www.wikidata.org/value/>>>

PREFIX **wikibase**: <<http://wikiba.se/ontology#>>

PREFIX **p**: <<http://www.wikidata.org/prop/>>

PREFIX **ps**: <<http://www.wikidata.org/prop/statement/>>

PREFIX **pq**: <<http://www.wikidata.org/prop/qualifier/>>

PREFIX **bd**: <<http://www.bigdata.com/rdf#>>

<https://en.wikibooks.org/wiki/SPARQL/Prefixes>

Screenshot

https://query.wikidata.org/

The screenshot shows the Wikidata Query Service interface. At the top left is the Wikidata logo and the text "Wikidata Query Service". To its right are three buttons: "Examples", "Help", and "More tools". In the top right corner, there is a language selector showing "English".

The main area is a query editor. On the left side of this area is a "Query Helper" sidebar with a close button (x). It contains several sections: a "+ Filter" section, a "+ Show" section, and a "Limit 100" section. Below these sections is a vertical toolbar with icons for various actions: a play button, a filter icon, a show icon, a diamond icon, a folder icon, a refresh icon, a trash icon, and a link icon. A large blue play button is also located at the bottom left of the sidebar.

The main query input area contains the text "1 (Input a SPARQL query or choose a query example)".






At the bottom right of the interface, there is a green refresh button (circular arrow icon).

Screenshot

Starting with Examples

The screenshot shows the Wikidata Query Service interface. The browser address bar displays `https://query.wikidata.org`. The main content area features a large, semi-transparent overlay with the text **instance of (P31)** in the center. Surrounding this central text are various Wikidata property labels such as `population (P1082)`, `creator (P170)`, `subclass of (P279)`, `date of birth (P569)`, `human (Q5)`, `country (P17)`, `coordinate location (P625)`, `image (P18)`, `sex or gender (P21)`, `position held (P39)`, `award received (P166)`, `author (P50)`, `female (Q6581072)`, `located in the administrative territorial entity (P131)`, `point in time (P585)`, `start time (P580)`, `child (P40)`, `end time (P582)`, `place of birth (P19)`, `has part (P527)`, `part of (P361)`, `occupation (P106)`, and `located in the administrative territorial entity (P131)`.

Below the overlay, a search bar labeled "Type to filter" shows a count of 427 results. A list of example queries is displayed, with the first item, "Cats", highlighted by a red rectangular box. The list includes:

- Cats 
- Goats 
- Horses (showing some info about them) 
- Cats, with pictures 
- Map of hospitals 

Each item in the list has a camera icon and an eye icon to its right.

Screenshot

Starting with Examples

The screenshot displays the Wikidata Query Service interface. At the top, the 'Examples' tab is selected. A query is entered in the editor, and the 'Run' button is highlighted. Below the query, a table of results is shown. An inset window provides a detailed view of a specific result, 'Cats', showing its various properties and relationships.

1 Query Editor:

```
1 #Cats
2 SELECT ?item ?itemLabel
3 WHERE
4 {
5   ?item wdt:P31 wd:Q146 .
6   SERVICE wikibase:label { bd:serviceParam wikibase:language "en" }
7 }
```

2 Detailed View of 'Cats':

- located in the administrative territorial entity (P131)
- position held (P39)
- subclass of (P279)
- human (Q5)
- city (Q515)
- country (P17)
- occupation (P106)
- image (P18)
- instance of (P31)
- inception (P571)
- place of birth (P19)
- end time (P582)
- coordinate location (P625)
- date of birth (P569)
- point in time (P585)
- creator (P170)
- start time (P580)
- Map (Q24515275)

3 Results Table:

item	itemLabel
Q:498787	Muezza
Q:677525	Orangey
Q:851190	Mrs. Chippy
Q:1050083	Catmando
Q:1185550	Oscar
Q:1201902	Tama

Screenshot

Wikidata Query Builder

 WIKIDATA QUERY BUILDER


 English

About this tool

The Wikidata Query Builder provides a visual interface for building a simple Wikidata query. It is ideal for users with little or no experience in SPARQL, the powerful query language. The Query Builder doesn't offer SPARQL's full functionality, but you can always open your query in the Query Service, where you can view, edit or expand it via the link above the results. [Feedback is welcome here.](#)

Query

Find all items...


With **Without** Property ⓘ Enter a property matching Value ⓘ Enter a value References ⓘ **with and without references** 

Add condition

Settings

- Limit the number of results to
- Show IDs instead of labels (may prevent timeout)

Run query

Get a shareable link 

Demonstration

To run query ...

5-10 mins to practice

Introduction to Wikidata Tools

Uses of Wikidata Tools

- Edit items
- Query data
- And much more-

<https://www.wikidata.org/wiki/Wikidata:Tools>

- **TABernacle**

<https://tabernacle.toolforge.org>

- **Wikidata-Terminator -**

<https://wikidata-terminator.toolforge.org>

Uses of Tabernacle

- **Can use Wikidata Query for listing the items**
- **Helpful in browsing and editing wikidata items.**
- **Use to Edit labels, descriptions, aliases, and properties for a list of Wikidata items**

Uses of Wikidata-Terminator

- Can use Wikidata Query for listing the items
- Add/Change labels and descriptions
- Can contribute from mobile
- This tool can find wikidata items that lack a label, description or article in a specific language.

Demonstration

To use Tabernacle ...

Any Questions

So far?

Tasks till next session

- Adding labels and descriptions using WD Query:
https://www.wikidata.org/wiki/Wikidata:WikiProject_India/Queries
- Try build some queries related Santali language / region
- Join the [WikiProject India](#)

THANK YOU

