Data files

Odoo is greatly data-driven, and a big part of modules definition is thus the definition of the various records it manages: UI (menus and views), security (access rights and access rules), reports and plain data are all defined via records.

**Structure**

The main way to define data in Odoo is via XML data files: The broad structure of an XML data file is the following:

* Any number of operation elements within the root element odoo

<!-- the root elements of the data file -->

<odoo>

<operation/>

...

</odoo>

Data files are executed sequentially, operations can only refer to the result of operations defined previously

**Core operations**

**record**

record appropriately defines or updates a database record, it has the following attributes:

model (required)

name of the model to create (or update)

id

the [external identifier](https://www.odoo.com/documentation/10.0/glossary.html#term-external-identifier) for this record. It is strongly recommended to provide one

* for record creation, allows subsequent definitions to either modify or refer to this record
* for record modification, the record to modify

context

context to use when creating the record

forcecreate

in update mode whether the record should be created if it doesn't exist

Requires an [external id](https://www.odoo.com/documentation/10.0/glossary.html#term-external-id), defaults to True.

**field**

Each record can be composed of field tags, defining values to set when creating the record. A record with no field will use all default values (creation) or do nothing (update).

A field has a mandatory name attribute, the name of the field to set, and various methods to define the value itself:

Nothing

if no value is provided for the field, an implicit False will be set on the field. Can be used to clear a field, or avoid using a default value for the field.

search

for [relational fields](https://www.odoo.com/documentation/10.0/reference/orm.html#reference-orm-fields-relational), should be a [domain](https://www.odoo.com/documentation/10.0/reference/orm.html#reference-orm-domains) on the field's model.

Will evaluate the domain, search the field's model using it and set the search's result as the field's value. Will only use the first result if the field is a [Many2one](https://www.odoo.com/documentation/10.0/reference/orm.html#odoo.fields.Many2one)

ref

if a ref attribute is provided, its value must be a valid [external id](https://www.odoo.com/documentation/10.0/glossary.html#term-external-id), which will be looked up and set as the field's value.

Mostly for [Many2one](https://www.odoo.com/documentation/10.0/reference/orm.html#odoo.fields.Many2one) and [Reference](https://www.odoo.com/documentation/10.0/reference/orm.html#odoo.fields.Reference) fields

type

if a type attribute is provided, it is used to interpret and convert the field's content. The field's content can be provided through an external file using the file attribute, or through the node's body.

Available types are:

xml, html

extracts the field's children as a single document, evaluates any [external id](https://www.odoo.com/documentation/10.0/glossary.html#term-external-id) specified with the form %(external\_id)s. %% can be used to output actual *%* signs.

file

ensures that the field content is a valid file path in the current model, saves the pair *module*,*path* as the field value

char

sets the field content directly as the field's value without alterations

base64

[base64](http://tools.ietf.org/html/rfc3548.html#section-3)-encodes the field's content, useful combined with the file *attribute* to load e.g. image data into attachments

int

converts the field's content to an integer and sets it as the field's value

float

converts the field's content to a float and sets it as the field's value

list, tuple

should contain any number of value elements with the same properties as field, each element resolves to an item of a generated tuple or list, and the generated collection is set as the field's value

eval

for cases where the previous methods are unsuitable, the eval attributes simply evaluates whatever Python expression it is provided and sets the result as the field's value.

The evaluation context contains various modules (time, datetime, timedelta, relativedelta), a function to resolve [external identifiers](https://www.odoo.com/documentation/10.0/glossary.html#term-external-identifiers) (ref) and the model object for the current field if applicable (obj)

**delete**

The delete tag can remove any number of records previously defined. It has the following attributes:

model (required)

the model in which a specified record should be deleted

id

the [external id](https://www.odoo.com/documentation/10.0/glossary.html#term-external-id) of a record to remove

search

a [domain](https://www.odoo.com/documentation/10.0/reference/orm.html#reference-orm-domains) to find records of the model to remove

id and search are exclusive

**function**

The function tag calls a method on a model, with provided parameters. It has two mandatory parameters model and name specifying respectively the model and the name of the method to call.

Parameters can be provided using eval (should evaluate to a sequence of parameters to call the method with) or value elements (see list values).

**workflow**

The workflow tag sends a signal to an existing workflow. The workflow can be specified via a ref attribute (the [external id](https://www.odoo.com/documentation/10.0/glossary.html#term-external-id) of an existing workflow) or a value tag returning the id of a workflow.

The tag also has two mandatory attributes model (the model linked to the workflow) and action (the name of the signal to send to the workflow).

**Shortcuts**

Because some important structural models of Odoo are complex and involved, data files provide shorter alternatives to defining them using [record tags](https://www.odoo.com/documentation/10.0/reference/data.html#reference-data-record):

**menuitem**

Defines an ir.ui.menu record with a number of defaults and fallbacks:

Parent menu

* If a parent attribute is set, it should be the [external id](https://www.odoo.com/documentation/10.0/glossary.html#term-external-id) of an other menu item, used as the new item's parent
* If no parent is provided, tries to interpret the name attribute as a /-separated sequence of menu names and find a place in the menu hierarchy. In that interpretation, intermediate menus are automatically created
* Otherwise the menu is defined as a "top-level" menu item (*not* a menu with no parent)

Menu name

If no name attribute is specified, tries to get the menu name from a linked action if any. Otherwise uses the record's id

Groups

A groups attribute is interpreted as a comma-separated sequence of [external identifiers](https://www.odoo.com/documentation/10.0/glossary.html#term-external-identifiers) for res.groups models. If an [external identifier](https://www.odoo.com/documentation/10.0/glossary.html#term-external-identifier) is prefixed with a minus (-), the group is *removed* from the menu's groups

action

if specified, the action attribute should be the [external id](https://www.odoo.com/documentation/10.0/glossary.html#term-external-id) of an action to execute when the menu is open

id

the menu item's [external id](https://www.odoo.com/documentation/10.0/glossary.html#term-external-id)

**template**

Creates a [QWeb view](https://www.odoo.com/documentation/10.0/reference/views.html#reference-views-qweb) requiring only the arch section of the view, and allowing a few *optional* attributes:

id

the view's [external identifier](https://www.odoo.com/documentation/10.0/glossary.html#term-external-identifier)

name, inherit\_id, priority

same as the corresponding field on ir.ui.view (nb: inherit\_id should be an [external identifier](https://www.odoo.com/documentation/10.0/glossary.html#term-external-identifier))

primary

if set to True and combined with a inherit\_id, defines the view as a primary

groups

comma-separated list of group [external identifiers](https://www.odoo.com/documentation/10.0/glossary.html#term-external-identifiers)

page

if set to "True", the template is a website page (linkable to, deletable)

optional

enabled or disabled, whether the view can be disabled (in the website interface) and its default status. If unset, the view is always enabled.

**report**

Creates a ir.actions.report.xml record with a few default values.

Mostly just proxies attributes to the corresponding fields on ir.actions.report.xml, but also automatically creates the item in the More menu of the report's model.

**CSV data files**

XML data files are flexible and self-descriptive, but very verbose when creating a number of simple records of the same model in bulk.

For this case, data files can also use [csv](http://en.wikipedia.org/wiki/Comma-separated_values), this is often the case for [access rights](https://www.odoo.com/documentation/10.0/reference/security.html#reference-security-acl):

* the file name is *model\_name*.csv
* the first row lists the fields to write, with the special field id for [external identifiers](https://www.odoo.com/documentation/10.0/glossary.html#term-external-identifiers) (used for creation or update)
* each row thereafter creates a new record

Here's the first lines of the data file defining US states res.country.state.csv

"id","country\_id:id","name","code"

state\_au\_1,au,"Australian Capital Territory","ACT"

state\_au\_2,au,"New South Wales","NSW"

state\_au\_3,au,"Northern Territory","NT"

state\_au\_4,au,"Queensland","QLD"

state\_au\_5,au,"South Australia","SA"

state\_au\_6,au,"Tasmania","TAS"

state\_au\_7,au,"Victoria","VIC"

state\_au\_8,au,"Western Australia","WA"

state\_us\_1,us,"Alabama","AL"

state\_us\_2,us,"Alaska","AK"

state\_us\_3,us,"Arizona","AZ"

state\_us\_4,us,"Arkansas","AR"

state\_us\_5,us,"California","CA"

state\_us\_6,us,"Colorado","CO"

rendered in a more readable format:

| **id** | **country\_id:id** | **name** | **code** |
| --- | --- | --- | --- |
| state\_au\_1 | au | Australian Capital Territory | ACT |
| state\_au\_2 | au | New South Wales | NSW |
| state\_au\_3 | au | Northern Territory | NT |
| state\_au\_4 | au | Queensland | QLD |
| state\_au\_5 | au | South Australia | SA |
| state\_au\_6 | au | Tasmania | TAS |
| state\_au\_7 | au | Victoria | VIC |
| state\_au\_8 | au | Western Australia | WA |
| state\_us\_1 | us | Alabama | AL |
| state\_us\_2 | us | Alaska | AK |
| state\_us\_3 | us | Arizona | AZ |
| state\_us\_4 | us | Arkansas | AR |
| state\_us\_5 | us | California | CA |
| state\_us\_6 | us | Colorado | CO |
| state\_us\_7 | us | Connecticut | CT |
| state\_us\_8 | us | Delaware | DE |
| state\_us\_9 | us | District of Columbia | DC |
| state\_us\_10 | us | Florida | FL |
| state\_us\_11 | us | Georgia | GA |
| state\_us\_12 | us | Hawaii | HI |
| state\_us\_13 | us | Idaho | ID |
| state\_us\_14 | us | Illinois | IL |
| state\_us\_15 | us | Indiana | IN |
| state\_us\_16 | us | Iowa | IA |
| state\_us\_17 | us | Kansas | KS |
| state\_us\_18 | us | Kentucky | KY |
| state\_us\_19 | us | Louisiana | LA |
| state\_us\_20 | us | Maine | ME |
| state\_us\_21 | us | Montana | MT |
| state\_us\_22 | us | Nebraska | NE |
| state\_us\_23 | us | Nevada | NV |
| state\_us\_24 | us | New Hampshire | NH |
| state\_us\_25 | us | New Jersey | NJ |
| state\_us\_26 | us | New Mexico | NM |
| state\_us\_27 | us | New York | NY |
| state\_us\_28 | us | North Carolina | NC |
| state\_us\_29 | us | North Dakota | ND |
| state\_us\_30 | us | Ohio | OH |
| state\_us\_31 | us | Oklahoma | OK |
| state\_us\_32 | us | Oregon | OR |
| state\_us\_33 | us | Maryland | MD |
| state\_us\_34 | us | Massachusetts | MA |
| state\_us\_35 | us | Michigan | MI |
| state\_us\_36 | us | Minnesota | MN |
| state\_us\_37 | us | Mississippi | MS |
| state\_us\_38 | us | Missouri | MO |
| state\_us\_39 | us | Pennsylvania | PA |
| state\_us\_40 | us | Rhode Island | RI |
| state\_us\_41 | us | South Carolina | SC |
| state\_us\_42 | us | South Dakota | SD |
| state\_us\_43 | us | Tennessee | TN |
| state\_us\_44 | us | Texas | TX |
| state\_us\_45 | us | Utah | UT |
| state\_us\_46 | us | Vermont | VT |
| state\_us\_47 | us | Virginia | VA |
| state\_us\_48 | us | Washington | WA |
| state\_us\_49 | us | West Virginia | WV |
| state\_us\_50 | us | Wisconsin | WI |
| state\_us\_51 | us | Wyoming | WY |
| state\_us\_as | us | American Samoa | AS |
| state\_us\_fm | us | Federated States of Micronesia | FM |
| state\_us\_gu | us | Guam | GU |
| state\_us\_mh | us | Marshall Islands | MH |
| state\_us\_mp | us | Northern Mariana Islands | MP |
| state\_us\_pw | us | Palau | PW |
| state\_us\_pr | us | Puerto Rico | PR |
| state\_us\_vi | us | Virgin Islands | VI |
| state\_us\_aa | us | Armed Forces Americas | AA |
| state\_us\_ae | us | Armed Forces Europe | AE |
| state\_us\_ap | us | Armed Forces Pacific | AP |
| state\_br\_ac | br | Acre | AC |
| state\_br\_al | br | Alagoas | AL |
| state\_br\_ap | br | Amapá | AP |
| state\_br\_am | br | Amazonas | AM |
| state\_br\_ba | br | Bahia | BA |
| state\_br\_ce | br | Ceará | CE |
| state\_br\_df | br | Distrito Federal | DF |
| state\_br\_es | br | Espírito Santo | ES |
| state\_br\_go | br | Goiás | GO |
| state\_br\_ma | br | Maranhão | MA |
| state\_br\_mt | br | Mato Grosso | MT |
| state\_br\_ms | br | Mato Grosso do Sul | MS |
| state\_br\_mg | br | Minas Gerais | MG |
| state\_br\_pa | br | Pará | PA |
| state\_br\_pb | br | Paraíba | PB |
| state\_br\_pr | br | Paraná | PR |
| state\_br\_pe | br | Pernambuco | PE |
| state\_br\_pi | br | Piauí | PI |
| state\_br\_rj | br | Rio de Janeiro | RJ |
| state\_br\_rn | br | Rio Grande do Norte | RN |
| state\_br\_rs | br | Rio Grande do Sul | RS |
| state\_br\_ro | br | Rondônia | RO |
| state\_br\_rr | br | Roraima | RR |
| state\_br\_sc | br | Santa Catarina | SC |
| state\_br\_sp | br | São Paulo | SP |
| state\_br\_se | br | Sergipe | SE |
| state\_br\_to | br | Tocantins | TO |
| state\_ru\_ad | ru | Republic of Adygeya | AD |
| state\_ru\_al | ru | Altai Republic | AL |
| state\_ru\_alt | ru | Altai Krai | ALT |
| state\_ru\_amu | ru | Amur Oblast | AMU |
| state\_ru\_ark | ru | Arkhangelsk Oblast | ARK |
| state\_ru\_ast | ru | Astrakhan Oblast | AST |
| state\_ru\_ba | ru | Republic of Bashkortostan | BA |
| state\_ru\_bel | ru | Belgorod Oblast | BEL |
| state\_ru\_bry | ru | Bryansk Oblast | BRY |
| state\_ru\_bu | ru | Republic of Buryatia | BU |
| state\_ru\_ce | ru | Chechen Republic | CE |
| state\_ru\_che | ru | Chelyabinsk Oblast | CHE |
| state\_ru\_chu | ru | Chukotka Autonomous Okrug | CHU |
| state\_ru\_cu | ru | Chuvash Republic | CU |
| state\_ru\_da | ru | Republic of Dagestan | DA |
| state\_ru\_in | ru | Republic of Ingushetia | IN |
| state\_ru\_irk | ru | Irkutsk Oblast | IRK |
| state\_ru\_iva | ru | Ivanovo Oblast | IVA |
| state\_ru\_kam | ru | Kamchatka Krai | KAM |
| state\_ru\_kb | ru | Kabardino-Balkarian Republic | KB |
| state\_ru\_kgd | ru | Kaliningrad Oblast | KGD |
| state\_ru\_kl | ru | Republic of Kalmykia | KL |
| state\_ru\_klu | ru | Kaluga Oblast | KLU |
| state\_ru\_kc | ru | Karachay–Cherkess Republic | KC |
| state\_ru\_kr | ru | Republic of Karelia | KR |
| state\_ru\_kem | ru | Kemerovo Oblast | KEM |
| state\_ru\_kha | ru | Khabarovsk Krai | KHA |
| state\_ru\_kk | ru | Republic of Khakassia | KK |
| state\_ru\_khm | ru | Khanty-Mansi Autonomous Okrug | KHM |
| state\_ru\_kir | ru | Kirov Oblast | KIR |
| state\_ru\_ko | ru | Komi Republic | KO |
| state\_ru\_kos | ru | Kostroma Oblast | KOS |
| state\_ru\_kda | ru | Krasnodar Krai | KDA |
| state\_ru\_kya | ru | Krasnoyarsk Krai | KYA |
| state\_ru\_kgn | ru | Kurgan Oblast | KGN |
| state\_ru\_krs | ru | Kursk Oblast | KRS |
| state\_ru\_len | ru | Leningrad Oblast | LEN |
| state\_ru\_lip | ru | Lipetsk Oblast | LIP |
| state\_ru\_mag | ru | Magadan Oblast | MAG |
| state\_ru\_me | ru | Mari El Republic | ME |
| state\_ru\_mo | ru | Republic of Mordovia | MO |
| state\_ru\_mos | ru | Moscow Oblast | MOS |
| state\_ru\_mow | ru | Moscow | MOW |
| state\_ru\_mur | ru | Murmansk Oblast | MUR |
| state\_ru\_niz | ru | Nizhny Novgorod Oblast | NIZ |
| state\_ru\_ngr | ru | Novgorod Oblast | NGR |
| state\_ru\_nvs | ru | Novosibirsk Oblast | NVS |
| state\_ru\_oms | ru | Omsk Oblast | OMS |
| state\_ru\_ore | ru | Orenburg Oblast | ORE |
| state\_ru\_orl | ru | Oryol Oblast | ORL |
| state\_ru\_pnz | ru | Penza Oblast | PNZ |
| state\_ru\_per | ru | Perm Krai | PER |
| state\_ru\_pri | ru | Primorsky Krai | PRI |
| state\_ru\_psk | ru | Pskov Oblast | PSK |
| state\_ru\_ros | ru | Rostov Oblast | ROS |
| state\_ru\_rya | ru | Ryazan Oblast | RYA |
| state\_ru\_sa | ru | Sakha Republic (Yakutia) | SA |
| state\_ru\_sak | ru | Sakhalin Oblast | SAK |
| state\_ru\_sam | ru | Samara Oblast | SAM |
| state\_ru\_spe | ru | Saint Petersburg | SPE |
| state\_ru\_sar | ru | Saratov Oblast | SAR |
| state\_ru\_se | ru | Republic of North Ossetia–Alania | SE |
| state\_ru\_smo | ru | Smolensk Oblast | SMO |
| state\_ru\_sta | ru | Stavropol Krai | STA |
| state\_ru\_sve | ru | Sverdlovsk Oblast | SVE |
| state\_ru\_tam | ru | Tambov Oblast | TAM |
| state\_ru\_ta | ru | Republic of Tatarstan | TA |
| state\_ru\_tom | ru | Tomsk Oblast | TOM |
| state\_ru\_tul | ru | Tula Oblast | TUL |
| state\_ru\_tve | ru | Tver Oblast | TVE |
| state\_ru\_tyu | ru | Tyumen Oblast | TYU |
| state\_ru\_ty | ru | Tyva Republic | TY |
| state\_ru\_ud | ru | Udmurtia | UD |
| state\_ru\_uly | ru | Ulyanovsk Oblast | ULY |
| state\_ru\_vla | ru | Vladimir Oblast | VLA |
| state\_ru\_vgg | ru | Volgograd Oblast | VGG |
| state\_ru\_vlg | ru | Vologda Oblast | VLG |
| state\_ru\_vor | ru | Voronezh Oblast | VOR |
| state\_ru\_yan | ru | Yamalo-Nenets Autonomous Okrug | YAN |
| state\_ru\_yar | ru | Yaroslavl Oblast | YAR |
| state\_ru\_yev | ru | Jewish Autonomous Oblast | YEV |
| state\_gt\_ave | gt | Alta Verapaz | AVE |
| state\_gt\_bve | gt | Baja Verapaz | BVE |
| state\_gt\_cmt | gt | Chimaltenango | CMT |
| state\_gt\_cqm | gt | Chiquimula | CQM |
| state\_gt\_epr | gt | El Progreso | EPR |
| state\_gt\_esc | gt | Escuintla | ESC |
| state\_gt\_gua | gt | Guatemala | GUA |
| state\_gt\_hue | gt | Huehuetenango | HUE |
| state\_gt\_iza | gt | Izabal | IZA |
| state\_gt\_jal | gt | Jalapa | JAL |
| state\_gt\_jut | gt | Jutiapa | JUT |
| state\_gt\_pet | gt | Petén | PET |
| state\_gt\_que | gt | Quetzaltenango | QUE |
| state\_gt\_qui | gt | Quiché | QUI |
| state\_gt\_ret | gt | Retalhuleu | RET |
| state\_gt\_sac | gt | Sacatepéquez | SAC |
| state\_gt\_sma | gt | San Marcos | SMA |
| state\_gt\_sro | gt | Santa Rosa | SRO |
| state\_gt\_sol | gt | Sololá | SOL |
| state\_gt\_suc | gt | Suchitepéquez | SUC |
| state\_gt\_tot | gt | Totonicapán | TOT |
| state\_gt\_zac | gt | Zacapa | ZAC |
| state\_jp\_jp-23 | jp | Aichi | 23 |
| state\_jp\_jp-05 | jp | Akita | 05 |
| state\_jp\_jp-02 | jp | Aomori | 02 |
| state\_jp\_jp-12 | jp | Chiba | 12 |
| state\_jp\_jp-38 | jp | Ehime | 38 |
| state\_jp\_jp-18 | jp | Fukui | 18 |
| state\_jp\_jp-40 | jp | Fukuoka | 40 |
| state\_jp\_jp-07 | jp | Fukushima | 07 |
| state\_jp\_jp-21 | jp | Gifu | 21 |
| state\_jp\_jp-10 | jp | Gunma | 10 |
| state\_jp\_jp-34 | jp | Hiroshima | 34 |
| state\_jp\_jp-01 | jp | Hokkaidō | 01 |
| state\_jp\_jp-28 | jp | Hyōgo | 28 |
| state\_jp\_jp-08 | jp | Ibaraki | 08 |
| state\_jp\_jp-17 | jp | Ishikawa | 17 |
| state\_jp\_jp-03 | jp | Iwate | 03 |
| state\_jp\_jp-37 | jp | Kagawa | 37 |
| state\_jp\_jp-46 | jp | Kagoshima | 46 |
| state\_jp\_jp-14 | jp | Kanagawa | 14 |
| state\_jp\_jp-39 | jp | Kōchi | 39 |
| state\_jp\_jp-43 | jp | Kumamoto | 43 |
| state\_jp\_jp-26 | jp | Kyōto | 26 |
| state\_jp\_jp-24 | jp | Mie | 24 |
| state\_jp\_jp-04 | jp | Miyagi | 04 |
| state\_jp\_jp-45 | jp | Miyazaki | 45 |
| state\_jp\_jp-20 | jp | Nagano | 20 |
| state\_jp\_jp-42 | jp | Nagasaki | 42 |
| state\_jp\_jp-29 | jp | Nara | 29 |
| state\_jp\_jp-15 | jp | Niigata | 15 |
| state\_jp\_jp-44 | jp | Ōita | 44 |
| state\_jp\_jp-33 | jp | Okayama | 33 |
| state\_jp\_jp-47 | jp | Okinawa | 47 |
| state\_jp\_jp-27 | jp | Ōsaka | 27 |
| state\_jp\_jp-41 | jp | Saga | 41 |
| state\_jp\_jp-11 | jp | Saitama | 11 |
| state\_jp\_jp-25 | jp | Shiga | 25 |
| state\_jp\_jp-32 | jp | Shimane | 32 |
| state\_jp\_jp-22 | jp | Shizuoka | 22 |
| state\_jp\_jp-09 | jp | Tochigi | 09 |
| state\_jp\_jp-36 | jp | Tokushima | 36 |
| state\_jp\_jp-31 | jp | Tottori | 31 |
| state\_jp\_jp-16 | jp | Toyama | 16 |
| state\_jp\_jp-13 | jp | Tōkyō | 13 |
| state\_jp\_jp-30 | jp | Wakayama | 30 |
| state\_jp\_jp-06 | jp | Yamagata | 06 |
| state\_jp\_jp-35 | jp | Yamaguchi | 35 |
| state\_jp\_jp-19 | jp | Yamanashi | 19 |
| state\_pt\_pt-01 | pt | Aveiro | 01 |
| state\_pt\_pt-02 | pt | Beja | 02 |
| state\_pt\_pt-03 | pt | Braga | 03 |
| state\_pt\_pt-04 | pt | Bragança | 04 |
| state\_pt\_pt-05 | pt | Castelo Branco | 05 |
| state\_pt\_pt-06 | pt | Coimbra | 06 |
| state\_pt\_pt-07 | pt | Évora | 07 |
| state\_pt\_pt-08 | pt | Faro | 08 |
| state\_pt\_pt-09 | pt | Guarda | 09 |
| state\_pt\_pt-10 | pt | Leiria | 10 |
| state\_pt\_pt-11 | pt | Lisboa | 11 |
| state\_pt\_pt-12 | pt | Portalegre | 12 |
| state\_pt\_pt-13 | pt | Porto | 13 |
| state\_pt\_pt-14 | pt | Santarém | 14 |
| state\_pt\_pt-15 | pt | Setúbal | 15 |
| state\_pt\_pt-16 | pt | Viana do Castelo | 16 |
| state\_pt\_pt-17 | pt | Vila Real | 17 |
| state\_pt\_pt-18 | pt | Viseu | 18 |
| state\_pt\_pt-20 | pt | Açores | 20 |
| state\_pt\_pt-30 | pt | Madeira | 30 |
| state\_eg\_dk | eg | Dakahlia | DK |
| state\_eg\_ba | eg | Red Sea | BA |
| state\_eg\_bh | eg | Beheira | BH |
| state\_eg\_fym | eg | Faiyum | FYM |
| state\_eg\_gh | eg | Gharbia | GH |
| state\_eg\_alx | eg | Alexandria | ALX |
| state\_eg\_is | eg | Ismailia | IS |
| state\_eg\_gz | eg | Giza | GZ |
| state\_eg\_mnf | eg | Monufia | MNF |
| state\_eg\_mn | eg | Minya | MN |
| state\_eg\_c | eg | Cairo | C |
| state\_eg\_kb | eg | Qalyubia | KB |
| state\_eg\_lx | eg | Luxor | LX |
| state\_eg\_wad | eg | New Valley | WAD |
| state\_eg\_shr | eg | Al Sharqia | SHR |
| state\_eg\_su | eg | 6th of October | SU |
| state\_eg\_suz | eg | Suez | SUZ |
| state\_eg\_asn | eg | Aswan | ASN |
| state\_eg\_ast | eg | Asyut | AST |
| state\_eg\_bns | eg | Beni Suef | BNS |
| state\_eg\_pts | eg | Port Said | PTS |
| state\_eg\_dt | eg | Damietta | DT |
| state\_eg\_hu | eg | Helwan | HU |
| state\_eg\_js | eg | South Sinai | JS |
| state\_eg\_kfs | eg | Kafr el-Sheikh | KFS |
| state\_eg\_mt | eg | Matrouh | MT |
| state\_eg\_kn | eg | Qena | KN |
| state\_eg\_sin | eg | North Sinai | SIN |
| state\_eg\_shg | eg | Sohag | SHG |
| state\_za\_ec | za | Eastern Cape | EC |
| state\_za\_fs | za | Free State | FS |
| state\_za\_gt | za | Gauteng | GT |
| state\_za\_nl | za | KwaZulu-Natal | NL |
| state\_za\_lp | za | Limpopo | LP |
| state\_za\_mp | za | Mpumalanga | MP |
| state\_za\_nc | za | Northern Cape | NC |
| state\_za\_nw | za | North West | NW |
| state\_za\_wc | za | Western Cape | WC |
| state\_it\_ag | it | Agrigento | AG |
| state\_it\_al | it | Alessandria | AL |
| state\_it\_an | it | Ancona | AN |
| state\_it\_ao | it | Aosta | AO |
| state\_it\_ar | it | Arezzo | AR |
| state\_it\_ap | it | Ascoli Piceno | AP |
| state\_it\_at | it | Asti | AT |
| state\_it\_av | it | Avellino | AV |
| state\_it\_ba | it | Bari | BA |
| state\_it\_bt | it | Barletta-Andria-Trani | BT |
| state\_it\_bl | it | Belluno | BL |
| state\_it\_bn | it | Benevento | BN |
| state\_it\_bg | it | Bergamo | BG |
| state\_it\_bi | it | Biella | BI |
| state\_it\_bo | it | Bologna | BO |
| state\_it\_bz | it | Bolzano | BZ |
| state\_it\_bs | it | Brescia | BS |
| state\_it\_br | it | Brindisi | BR |
| state\_it\_ca | it | Cagliari | CA |
| state\_it\_cl | it | Caltanissetta | CL |
| state\_it\_cb | it | Campobasso | CB |
| state\_it\_ci | it | Carbonia-Iglesias | CI |
| state\_it\_ce | it | Caserta | CE |
| state\_it\_ct | it | Catania | CT |
| state\_it\_cz | it | Catanzaro | CZ |
| state\_it\_ch | it | Chieti | CH |
| state\_it\_co | it | Como | CO |
| state\_it\_cs | it | Cosenza | CS |
| state\_it\_cr | it | Cremona | CR |
| state\_it\_kr | it | Crotone | KR |
| state\_it\_cn | it | Cuneo | CN |
| state\_it\_en | it | Enna | EN |
| state\_it\_fm | it | Fermo | FM |
| state\_it\_fe | it | Ferrara | FE |
| state\_it\_fi | it | Firenze | FI |
| state\_it\_fg | it | Foggia | FG |
| state\_it\_fc | it | Forlì-Cesena | FC |
| state\_it\_fr | it | Frosinone | FR |
| state\_it\_ge | it | Genova | GE |
| state\_it\_go | it | Gorizia | GO |
| state\_it\_gr | it | Grosseto | GR |
| state\_it\_im | it | Imperia | IM |
| state\_it\_is | it | Isernia | IS |
| state\_it\_sp | it | La Spezia | SP |
| state\_it\_aq | it | L'Aquila | AQ |
| state\_it\_lt | it | Latina | LT |
| state\_it\_le | it | Lecce | LE |
| state\_it\_lc | it | Lecco | LC |
| state\_it\_li | it | Livorno | LI |
| state\_it\_lo | it | Lodi | LO |
| state\_it\_lu | it | Lucca | LU |
| state\_it\_mc | it | Macerata | MC |
| state\_it\_mn | it | Mantova | MN |
| state\_it\_ms | it | Massa-Carrara | MS |
| state\_it\_mt | it | Matera | MT |
| state\_it\_vs | it | Medio Campidano | VS |
| state\_it\_me | it | Messina | ME |
| state\_it\_mi | it | Milano | MI |
| state\_it\_mo | it | Modena | MO |
| state\_it\_mb | it | Monza e Brianza | MB |
| state\_it\_na | it | Napoli | NA |
| state\_it\_no | it | Novara | NO |
| state\_it\_nu | it | Nuoro | NU |
| state\_it\_og | it | Ogliastra | OG |
| state\_it\_ot | it | Olbia-Tempio | OT |
| state\_it\_or | it | Oristano | OR |
| state\_it\_pd | it | Padova | PD |
| state\_it\_pa | it | Palermo | PA |
| state\_it\_pr | it | Parma | PR |
| state\_it\_pv | it | Pavia | PV |
| state\_it\_pg | it | Perugia | PG |
| state\_it\_pu | it | Pesaro e Urbino | PU |
| state\_it\_pe | it | Pescara | PE |
| state\_it\_pc | it | Piacenza | PC |
| state\_it\_pi | it | Pisa | PI |
| state\_it\_pt | it | Pistoia | PT |
| state\_it\_pn | it | Pordenone | PN |
| state\_it\_pz | it | Potenza | PZ |
| state\_it\_po | it | Prato | PO |
| state\_it\_rg | it | Ragusa | RG |
| state\_it\_ra | it | Ravenna | RA |
| state\_it\_rc | it | Reggio Calabria | RC |
| state\_it\_re | it | Reggio Emilia | RE |
| state\_it\_ri | it | Rieti | RI |
| state\_it\_rn | it | Rimini | RN |
| state\_it\_rm | it | Roma | RM |
| state\_it\_ro | it | Rovigo | RO |
| state\_it\_sa | it | Salerno | SA |
| state\_it\_ss | it | Sassari | SS |
| state\_it\_sv | it | Savona | SV |
| state\_it\_si | it | Siena | SI |
| state\_it\_sr | it | Siracusa | SR |
| state\_it\_so | it | Sondrio | SO |
| state\_it\_ta | it | Taranto | TA |
| state\_it\_te | it | Teramo | TE |
| state\_it\_tr | it | Terni | TR |
| state\_it\_to | it | Torino | TO |
| state\_it\_tp | it | Trapani | TP |
| state\_it\_tn | it | Trento | TN |
| state\_it\_tv | it | Treviso | TV |
| state\_it\_ts | it | Trieste | TS |
| state\_it\_ud | it | Udine | UD |
| state\_it\_va | it | Varese | VA |
| state\_it\_ve | it | Venezia | VE |
| state\_it\_vb | it | Verbano-Cusio-Ossola | VB |
| state\_it\_vc | it | Vercelli | VC |
| state\_it\_vr | it | Verona | VR |
| state\_it\_vv | it | Vibo Valentia | VV |
| state\_it\_vi | it | Vicenza | VI |
| state\_it\_vt | it | Viterbo | VT |
| state\_es\_c | es | A Coruña (La Coruña) | C |
| state\_es\_vi | es | Araba/Álava | VI |
| state\_es\_ab | es | Albacete | AB |
| state\_es\_a | es | Alacant (Alicante) | A |
| state\_es\_al | es | Almería | AL |
| state\_es\_o | es | Asturias | O |
| state\_es\_av | es | Ávila | AV |
| state\_es\_ba | es | Badajoz | BA |
| state\_es\_pm | es | Illes Balears (Islas Baleares) | PM |
| state\_es\_b | es | Barcelona | B |
| state\_es\_bu | es | Burgos | BU |
| state\_es\_cc | es | Cáceres | CC |
| state\_es\_ca | es | Cádiz | CA |
| state\_es\_s | es | Cantabria | S |
| state\_es\_cs | es | Castelló (Castellón) | CS |
| state\_es\_ce | es | Ceuta | CE |
| state\_es\_cr | es | Ciudad Real | CR |
| state\_es\_co | es | Córdoba | CO |
| state\_es\_cu | es | Cuenca | CU |
| state\_es\_gi | es | Girona (Gerona) | GI |
| state\_es\_gr | es | Granada | GR |
| state\_es\_gu | es | Guadalajara | GU |
| state\_es\_ss | es | Gipuzkoa (Guipúzcoa) | SS |
| state\_es\_h | es | Huelva | H |
| state\_es\_hu | es | Huesca | HU |
| state\_es\_j | es | Jaén | J |
| state\_es\_lo | es | La Rioja | LO |
| state\_es\_gc | es | Las Palmas | GC |
| state\_es\_le | es | León | LE |
| state\_es\_l | es | Lleida (Lérida) | L |
| state\_es\_lu | es | Lugo | LU |
| state\_es\_m | es | Madrid | M |
| state\_es\_ma | es | Málaga | MA |
| state\_es\_ml | es | Melilla | ME |
| state\_es\_mu | es | Murcia | MU |
| state\_es\_na | es | Nafarroa (Navarra) | NA |
| state\_es\_or | es | Ourense (Orense) | OR |
| state\_es\_p | es | Palencia | P |
| state\_es\_po | es | Pontevedra | PO |
| state\_es\_sa | es | Salamanca | SA |
| state\_es\_tf | es | Santa Cruz de Tenerife | TF |
| state\_es\_sg | es | Segovia | SG |
| state\_es\_se | es | Sevilla | SE |
| state\_es\_so | es | Soria | SO |
| state\_es\_t | es | Tarragona | T |
| state\_es\_te | es | Teruel | TE |
| state\_es\_to | es | Toledo | TO |
| state\_es\_v | es | València (Valencia) | V |
| state\_es\_va | es | Valladolid | VA |
| state\_es\_bi | es | Bizkaia (Vizcaya) | BI |
| state\_es\_za | es | Zamora | ZA |
| state\_es\_z | es | Zaragoza | Z |
| state\_my\_jhr | my | Johor | JHR |
| state\_my\_kdh | my | Kedah | KDH |
| state\_my\_ktn | my | Kelantan | KTN |
| state\_my\_kul | my | Kuala Lumpur | KUL |
| state\_my\_lbn | my | Labuan | LBN |
| state\_my\_mlk | my | Melaka | MLK |
| state\_my\_nsn | my | Negeri Sembilan | NSN |
| state\_my\_phg | my | Pahang | PHG |
| state\_my\_prk | my | Perak | PRK |
| state\_my\_pls | my | Perlis | PLS |
| state\_my\_png | my | Pulau Pinang | PNG |
| state\_my\_pjy | my | Putrajaya | PJY |
| state\_my\_sbh | my | Sabah | SBH |
| state\_my\_swk | my | Sarawak | SWK |
| state\_my\_sgr | my | Selangor | SGR |
| state\_my\_trg | my | Terengganu | TRG |
| state\_mx\_ags | mx | Aguascalientes | AGU |
| state\_mx\_bc | mx | Baja California | BCN |
| state\_mx\_bcs | mx | Baja California Sur | BCS |
| state\_mx\_chih | mx | Chihuahua | CHH |
| state\_mx\_col | mx | Colima | COL |
| state\_mx\_camp | mx | Campeche | CAM |
| state\_mx\_coah | mx | Coahuila | COA |
| state\_mx\_chis | mx | Chiapas | CHP |
| state\_mx\_df | mx | Ciudad de México | DIF |
| state\_mx\_dgo | mx | Durango | DUR |
| state\_mx\_gro | mx | Guerrero | GRO |
| state\_mx\_gto | mx | Guanajuato | GUA |
| state\_mx\_hgo | mx | Hidalgo | HID |
| state\_mx\_jal | mx | Jalisco | JAL |
| state\_mx\_mich | mx | Michoacán | MIC |
| state\_mx\_mor | mx | Morelos | MOR |
| state\_mx\_mex | mx | México | MEX |
| state\_mx\_nay | mx | Nayarit | NAY |
| state\_mx\_nl | mx | Nuevo León | NLE |
| state\_mx\_oax | mx | Oaxaca | OAX |
| state\_mx\_pue | mx | Puebla | PUE |
| state\_mx\_q roo | mx | Quintana Roo | ROO |
| state\_mx\_qro | mx | Querétaro | QUE |
| state\_mx\_sin | mx | Sinaloa | SIN |
| state\_mx\_slp | mx | San Luis Potosí | SLP |
| state\_mx\_son | mx | Sonora | SON |
| state\_mx\_tab | mx | Tabasco | TAB |
| state\_mx\_tlax | mx | Tlaxcala | TLA |
| state\_mx\_tamps | mx | Tamaulipas | TAM |
| state\_mx\_ver | mx | Veracruz | VER |
| state\_mx\_yuc | mx | Yucatán | YUC |
| state\_mx\_zac | mx | Zacatecas | ZAC |
| state\_nz\_auk | nz | Auckland | AUK |
| state\_nz\_bop | nz | Bay of Plenty | BOP |
| state\_nz\_can | nz | Canterbury | CAN |
| state\_nz\_gis | nz | Gisborne | GIS |
| state\_nz\_hkb | nz | Hawke's Bay | HKB |
| state\_nz\_mwt | nz | Manawatu-Wanganui | MWT |
| state\_nz\_mbh | nz | Marlborough | MBH |
| state\_nz\_nsn | nz | Nelson | NSN |
| state\_nz\_ntl | nz | Northland | NTL |
| state\_nz\_ota | nz | Otago | OTA |
| state\_nz\_stl | nz | Southland | STL |
| state\_nz\_tki | nz | Taranaki | TKI |
| state\_nz\_tas | nz | Tasman | TAS |
| state\_nz\_wko | nz | Waikato | WKO |
| state\_nz\_wgn | nz | Wellington | WGN |
| state\_nz\_wtc | nz | West Coast | WTC |
| state\_ca\_ab | ca | Alberta | AB |
| state\_ca\_bc | ca | British Columbia | BC |
| state\_ca\_mb | ca | Manitoba | MB |
| state\_ca\_nb | ca | New Brunswick | NB |
| state\_ca\_nl | ca | Newfoundland and Labrador | NL |
| state\_ca\_nt | ca | Northwest Territories | NT |
| state\_ca\_ns | ca | Nova Scotia | NS |
| state\_ca\_nu | ca | Nunavut | NU |
| state\_ca\_on | ca | Ontario | ON |
| state\_ca\_pe | ca | Prince Edward Island | PE |
| state\_ca\_qc | ca | Quebec | QC |
| state\_ca\_sk | ca | Saskatchewan | SK |
| state\_ca\_yt | ca | Yukon | YT |
| state\_ae\_az | ae | Abu Dhabi | AZ |
| state\_ae\_aj | ae | Ajman | AJ |
| state\_ae\_du | ae | Dubai | DU |
| state\_ae\_fu | ae | Fujairah | FU |
| state\_ae\_rk | ae | Ras al-Khaimah | RK |
| state\_ae\_sh | ae | Sharjah | SH |
| state\_ae\_uq | ae | Umm al-Quwain | UQ |
| state\_ar\_c | ar | Buenos Aires City | C |
| state\_ar\_b | ar | Buenos Aires | B |
| state\_ar\_k | ar | Catamarca | K |
| state\_ar\_h | ar | Chaco | H |
| state\_ar\_u | ar | Chobut | U |
| state\_ar\_x | ar | Córdoba | X |
| state\_ar\_w | ar | Corrientes | W |
| state\_ar\_e | ar | Ente Ríos | E |
| state\_ar\_p | ar | Formosa | P |
| state\_ar\_y | ar | Jujuy | Y |
| state\_ar\_l | ar | La Pampa | L |
| state\_ar\_f | ar | La Rioja | F |
| state\_ar\_m | ar | Mendoza | M |
| state\_ar\_n | ar | Misiones | N |
| state\_ar\_q | ar | Neuquén | Q |
| state\_ar\_r | ar | Río Negro | R |
| state\_ar\_a | ar | Salta | A |
| state\_ar\_j | ar | San Juan | J |
| state\_ar\_d | ar | San Luis | D |
| state\_ar\_z | ar | Santa Cruz | Z |
| state\_ar\_s | ar | Santa Fe | S |
| state\_ar\_g | ar | Santiago Del Estero | G |
| state\_ar\_v | ar | Tierra del Fuego | V |
| state\_ar\_t | ar | Tucumán | T |
| state\_in\_an | in | Andaman and Nicobar | AN |
| state\_in\_ap | in | Andhra Pradesh | AP |
| state\_in\_ar | in | Arunachal Pradesh | AR |
| state\_in\_as | in | Assam | AS |
| state\_in\_br | in | Bihar | BR |
| state\_in\_ch | in | Chandigarh | CH |
| state\_in\_cg | in | Chattisgarh | CG |
| state\_in\_dn | in | Dadra and Nagar Haveli | DN |
| state\_in\_dd | in | Daman and Diu | DD |
| state\_in\_dl | in | Delhi | DL |
| state\_in\_ga | in | Goa | GA |
| state\_in\_gj | in | Gujarat | GJ |
| state\_in\_hr | in | Haryana | HR |
| state\_in\_hp | in | Himachal Pradesh | HP |
| state\_in\_jk | in | Jammu and Kashmir | JK |
| state\_in\_jh | in | Jharkhand | JH |
| state\_in\_ka | in | Karnataka | KA |
| state\_in\_kl | in | Kerala | KL |
| state\_in\_ld | in | Lakshadweep | LD |
| state\_in\_mp | in | Madhya Pradesh | MP |
| state\_in\_mh | in | Maharashtra | MH |
| state\_in\_mn | in | Manipur | MN |
| state\_in\_ml | in | Meghalaya | ML |
| state\_in\_mz | in | Mizoram | MZ |
| state\_in\_nl | in | Nagaland | NL |
| state\_in\_or | in | Orissa | OR |
| state\_in\_py | in | Puducherry | PY |
| state\_in\_pb | in | Punjab | PB |
| state\_in\_rj | in | Rajasthan | RJ |
| state\_in\_sk | in | Sikkim | SK |
| state\_in\_tn | in | Tamil Nadu | TN |
| state\_in\_ts | in | Telangana | TS |
| state\_in\_tr | in | Tripura | TR |
| state\_in\_up | in | Uttar Pradesh | UP |
| state\_in\_uk | in | Uttarakhand | UK |
| state\_in\_wb | in | West Bengal | WB |
| state\_id\_ac | id | Aceh | AC |
| state\_id\_ba | id | Bali | BA |
| state\_id\_bb | id | Bangka Belitung | BB |
| state\_id\_bt | id | Banten | BT |
| state\_id\_be | id | Bengkulu | BE |
| state\_id\_go | id | Gorontalo | GO |
| state\_id\_jk | id | Jakarta | JK |
| state\_id\_ja | id | Jambi | JA |
| state\_id\_jb | id | Jawa Barat | JB |
| state\_id\_jt | id | Jawa Tengah | JT |
| state\_id\_ji | id | Jawa Timur | JI |
| state\_id\_kb | id | Kalimantan Barat | KB |
| state\_id\_ks | id | Kalimantan Selatan | KS |
| state\_id\_kt | id | Kalimantan Tengah | KT |
| state\_id\_ki | id | Kalimantan Timur | KI |
| state\_id\_ku | id | Kalimantan Utara | KU |
| state\_id\_kr | id | Kepulauan Riau | KR |
| state\_id\_la | id | Lampung | LA |
| state\_id\_ma | id | Maluku | MA |
| state\_id\_mu | id | Maluku Utara | MU |
| state\_id\_nb | id | Nusa Tenggara Barat | NB |
| state\_id\_nt | id | Nusa Tenggara Timur | NT |
| state\_id\_pa | id | Papua | PA |
| state\_id\_pb | id | Papua Barat | PB |
| state\_id\_ri | id | Riau | RI |
| state\_id\_sr | id | Sulawesi Barat | SR |
| state\_id\_sn | id | Sulawesi Selatan | SN |
| state\_id\_st | id | Sulawesi Tengah | ST |
| state\_id\_sg | id | Sulawesi Tenggara | SG |
| state\_id\_sa | id | Sulawesi Utara | SA |
| state\_id\_sb | id | Sumatra Barat | SB |
| state\_id\_ss | id | Sumatra Selatan | SS |
| state\_id\_su | id | Sumatra Utara | SU |
| state\_id\_yo | id | Yogyakarta | YO |

For each row (record):

* the first column is the [external id](https://www.odoo.com/documentation/10.0/glossary.html#term-external-id) of the record to create or update
* the second column is the [external id](https://www.odoo.com/documentation/10.0/glossary.html#term-external-id) of the country object to link to (country objects must have been defined beforehand)
* the third column is the name field for res.country.state
* the fourth column is the code field for res.country.state