```
dbt V Jinja Cheatsheet
                                                      Loops
Variables
                                                                                                                  Compiled
                                                      Input
{% set my_string = "example" %}
                                                       -- Over list
                                                                                                                   SELECT
                                                       {% set my_list = ['sales_x', 'sales_y'] %}
{% set my_list = ["apple", "lemon"] %}
                                                                                                                     id,
{% set my_dict = {"WatchEvent": "watch_user_count",
                                                       SELECT
                                                                                                                     SUM(sales_x),
                  "ForkEvent": "fork_user_count" %}
                                                                                                                     SUM(sales_y)
                                                        {%- for col_name in my_list %}
                                                                                                                   FROM example
                                                        SUM({{ col_name }})
                                                                                                                   GROUP BY 1
Comments
                                                        {%- if not loop.last -%}, {%- endif -%}
                                                        {% endfor %}
{# Example comment #}
                                                       FROM example
                                                       GROUP BY 1
Statements
                                                       -- Over dictionary
                                                                                                                 SELECT
{% ... %} e.g.: loops, if
                                                       {% set payment_methods = {"type_0" : "bank_transfer",
                                                                                                                    order_id,
                                                                                 "type_1" : "credit_card",
                                                                                  "type_2" : "gift_card"} %}
Expressions
                                                                                                                          WHEN payment_method = 'type_0'
                                                                                                                          THEN amount END) AS bank_transfer_amt,
                                                       SELECT
{{ ... }} e.g.: ref
                                                                                                                    sum (CASE
                                                        order_id,
                                                                                                                          WHEN payment_method = 'type_1'
                                                        {%- for type, column_name in payment_methods.items()%}
                                                                                                                          THEN amount END) AS credit_card_amt,
var()
                                                                sum (CASE
                                                                                                                    sum (CASE
                                                                      WHEN payment_method = '{{type}}'
                                                                                                                          WHEN payment_method = 'type_2'
SELECT
                                                                      THEN amount end) as {{ column_name }}_amt
                                                                                                                          THEN amount END) AS gift_card_amt
                                                        {%- if not loop.last -%}, {%- endif -%}
                                                                                                                 FROM example
FROM events
                                                        {%- endfor -%}
                                                                                                                 GROUP BY 1
WHERE event_type = '{{ var("event_type") }}'
                                                       FROM example
                                                       GROUP BY 1
Macros
                                                      Graph (dag)
                                                                                                                 dbt utils
 Macros are reusable code snippets (functions) written
                                                      {% macro example() %}
                                                                                                                 dbt utils is a collection of reusable dbt macros
 in Jinja
                                                                                                                 Examples:
                                                       {% if execute %}
                                                      {% for node in graph.nodes.values() %}
{% macro cents_to_dollar(col_name, precision=2) %}
                                                      {% do log(node.unique_id ~ ", config: " ~ node.config,
({{ col_name }} / 100)::numeric(16, {{ precision }})
                                                                                                                 deduplicate - remove duplicates from a model
                                                       info=true) %}
                                                                                                                 group by - build a group by statement for (1..N)
                                                       {% endfor %}
{% endmacro %}
                                                       {% endif %}
 Run macro
                                                      {% endmacro %}
 dbt run-operation <macro> --args '{example: value}'
Cast variable
                                                      if |elif|else
                                                                                                                 Trim whitespace
                                                      {% macro generate_schema_name() -%}
                                                                                                                  {%- ... %} Strips before
# To string
                                                      {%- if target.name == 'dev'-%}
{% set my_int_var = 2020 %}
                                                                                                                  {%- ... -%} Strips before and after
{% set my_int_var|string %}
                                                      {%- elif target.name == 'prod' -%}
                                                      {%- else -%}
                                                      {%- endif -%}
# To int
                                                      {%- endmacro %}
{% set my_str_var = "2020" %}
{% set my_str_var|int %}
Length
                                                                                                                 Logging to Stdout
                                                      Exceptions
                                                      -- Warning
{% set my_list = ["apple", "lemon"] %}
                                                                                                                 {{ log("Some text" ~ my_string, info=True) }}
                                                      {% do exceptions.warn("Warning message") %}
# Check if my_list has more than 3 element
                                                      -- Error
{% if products|length > 3 %}
                                                      {{ exceptions.raise_compiler_error("Error message") }}
Manipulate objects
                                                      Debug
                                                                                                                 Return
{\% set numbers = [] \%}
                                                                                                                 {% macro example() %}
                                                      The {{ debug() }} macro will open an iPython debugger in the
                                                       context of a compiled dbt macro
{%- for i in range(1, 10) %}
                                                                                                                 {{ return("Hello") }}
{%- do numbers.append(i) -%}
```

Loop.last

{%- endfor %}

To avoid trailing commas in loops use:

{% if not loop.last %},{% endif %}

Run query

{% do results.print_table() %}

{{ debug() }}

Usage:

. . .

{% set results = run_query("select * from table") %}

Enviroment variables

{{ env_var("VAR_NAME") }}

{% endmacro %}