Parameter

- job title

- job level

- skill set

- cwf (task) set

Job post

LLM extraction
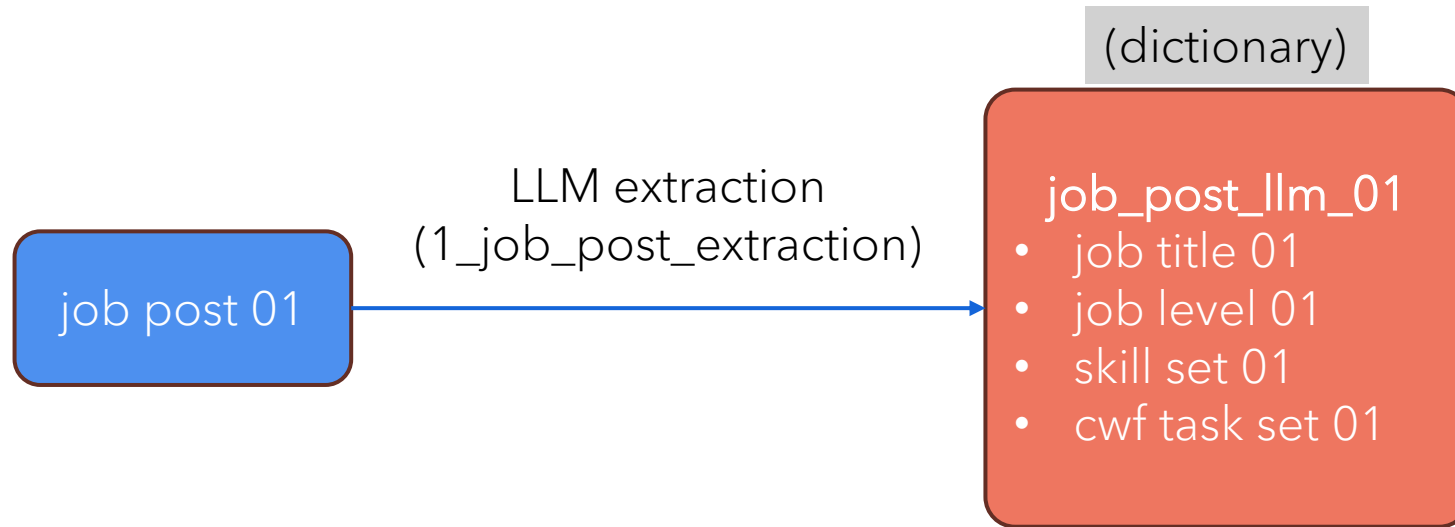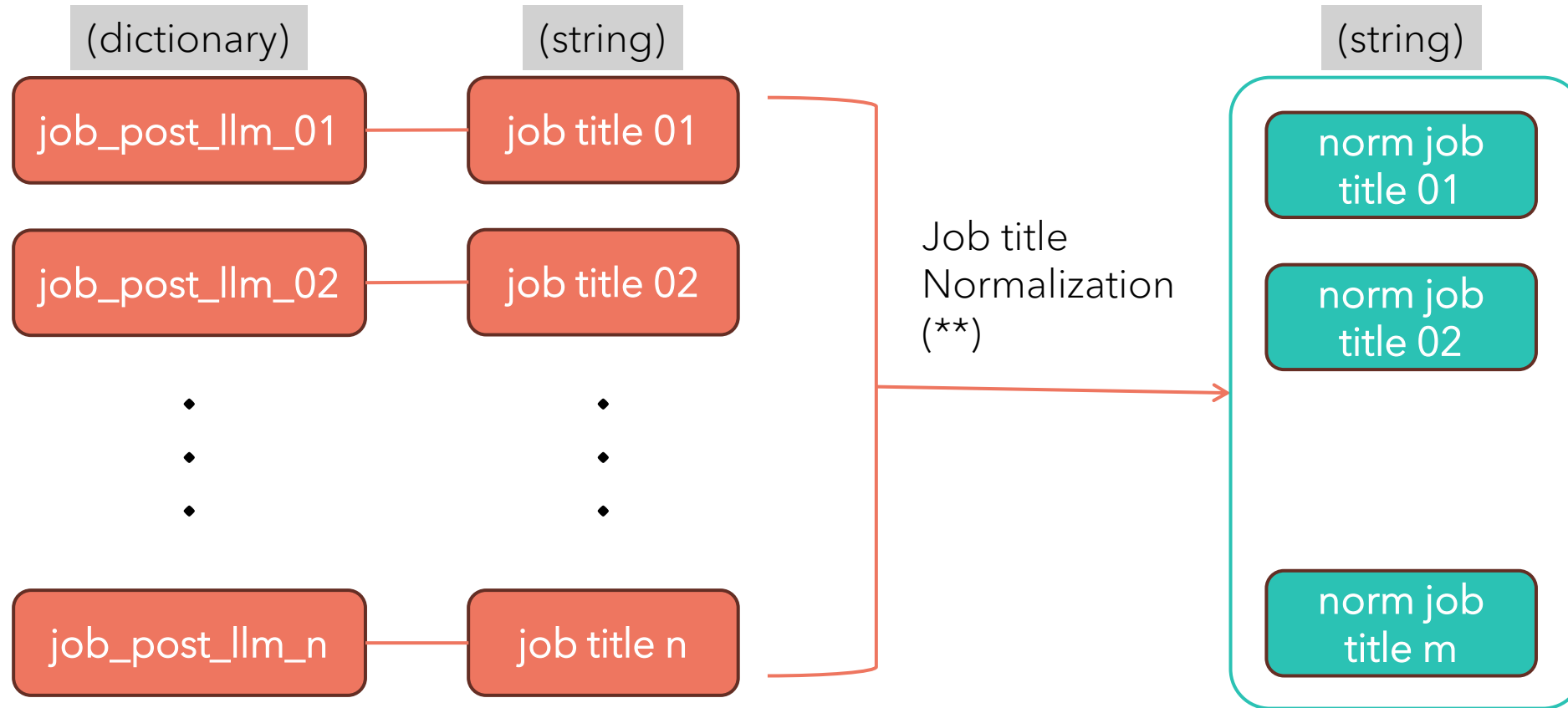(1_job_post_extraction)

job post 01

(dictionary)

job_post_llm_01
- job title 01
- job level 01
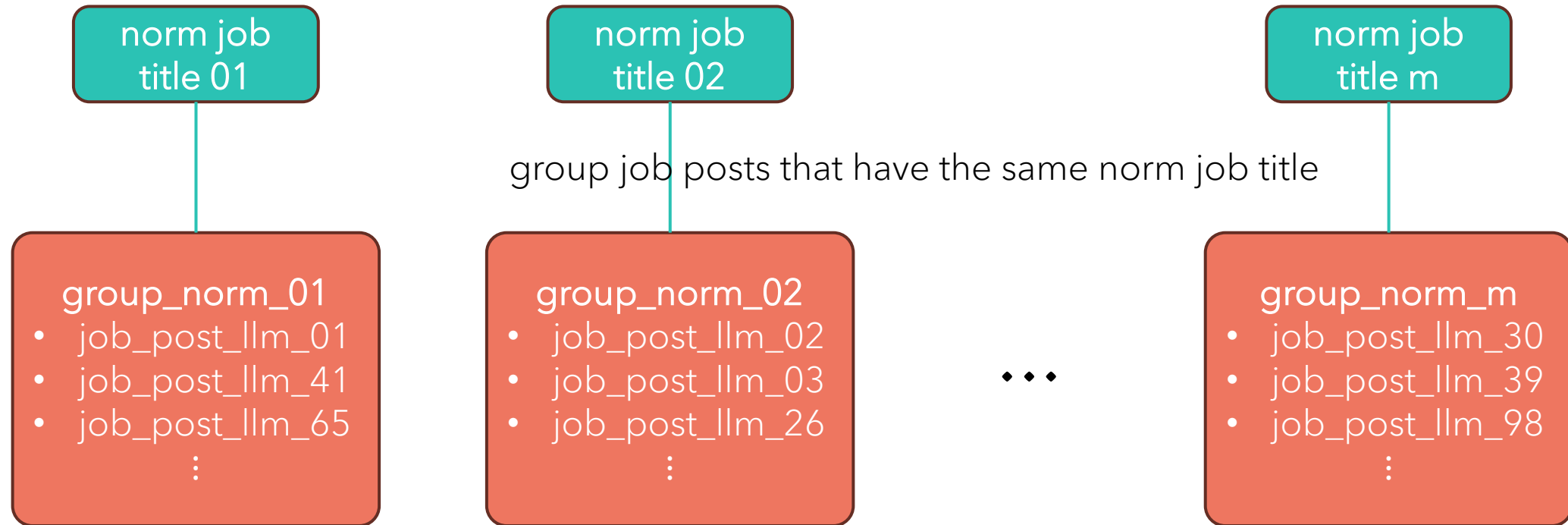- skill set 01
- cwf task set 01

Job post extraction

- job title (str)

- job level (int)

- skill set (dictionary): return skill title, skill type and evidence

- cwf (task) set (dictionary): return topic and task

Job title Normalization

(dictionary)

(string)

(string)

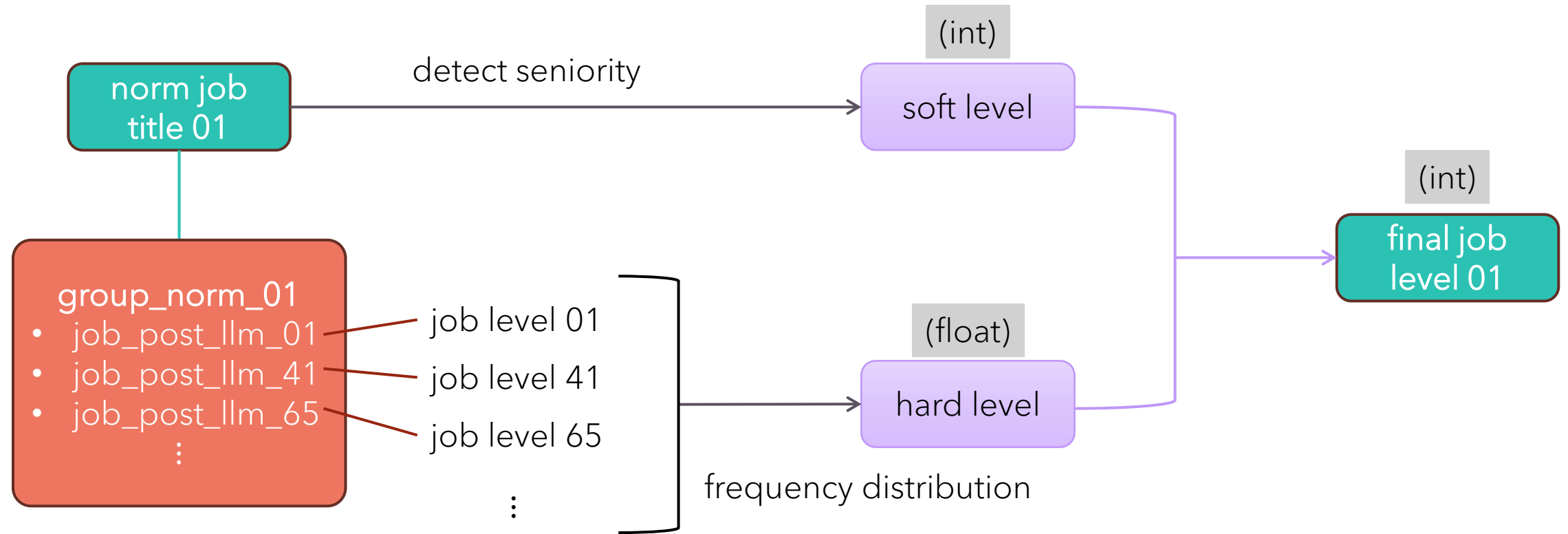job_post_llm_01 — job title 01

job_post_llm_02 — job title 02

job_post_llm_n — job title n

Job title
Normalization
(**)

norm job title 01

norm job title 02

norm job title m

** 2_normalization.ipynb – function: '"..."

Job title: Grouping

norm job title 01		norm job title 02		norm job title m

group_norm_01
- job_post_llm_01
- job_post_llm_41
- job_post_llm_65
- ⋮

group job posts that have the same norm job title

group_norm_02
- job_post_llm_02
- job_post_llm_03
- job_post_llm_26
- ⋮

· · ·

group_norm_m
- job_post_llm_30
- job_post_llm_39
- job_post_llm_98
- ⋮

Job level

Job level: job level management

Skill set

norm job title 01

group_norm_01
- job_post_llm_01 — skill set 01
- job_post_llm_41 — skill set 41
⋮

(dictionary)

norm job title 02

group_norm_02
- job_post_llm_02 — skill set 02
- job_post_llm_03 — skill set 03
⋮

norm job title m

group_norm_m
- job_post_llm_30 — skill set 30
- job_post_llm_39 — skill set 39
⋮

function a

(list of string)

list_norm_skill_title
norm skill title 01
norm skill title 02
norm skill title 03
⋮
norm skill title k

function b

(list of string)

list_ref_pl
ref_pl_norm_st_ 01
ref_pl_norm_st_ 02
ref_pl_norm_st_ 03
⋮
ref_pl_norm_st_ k

**
function a: normalization
function b: LLM descriptor (get pl 6 levels)
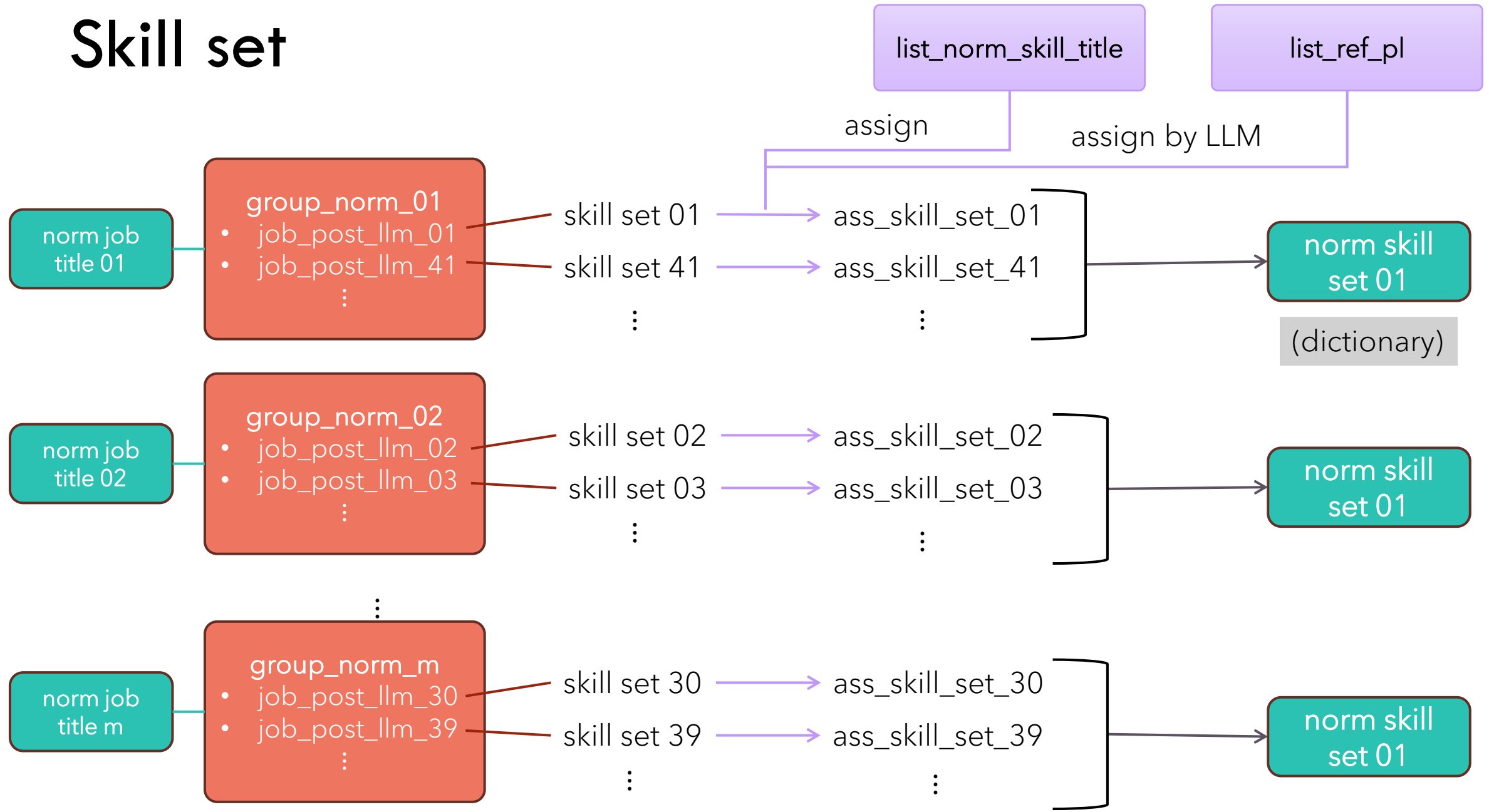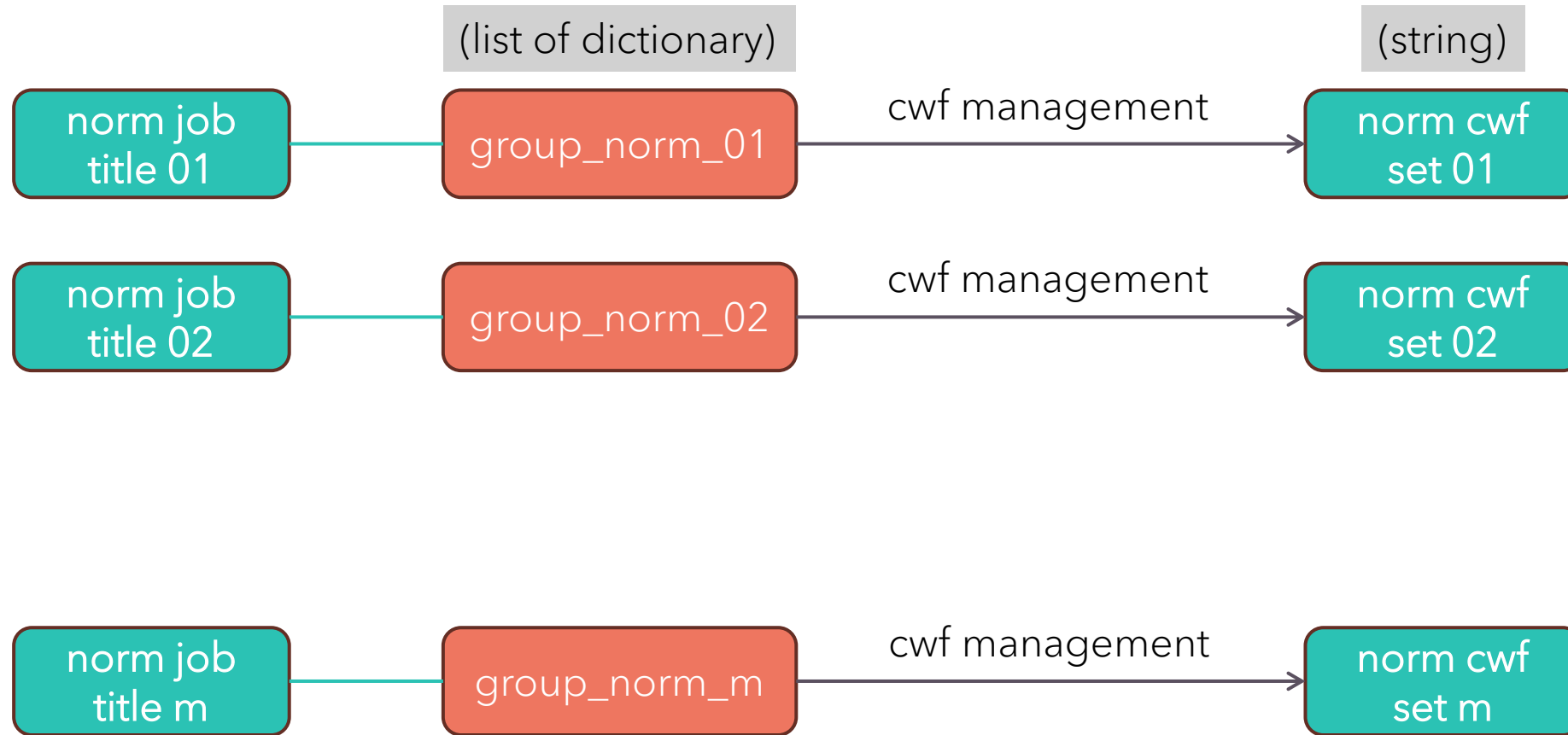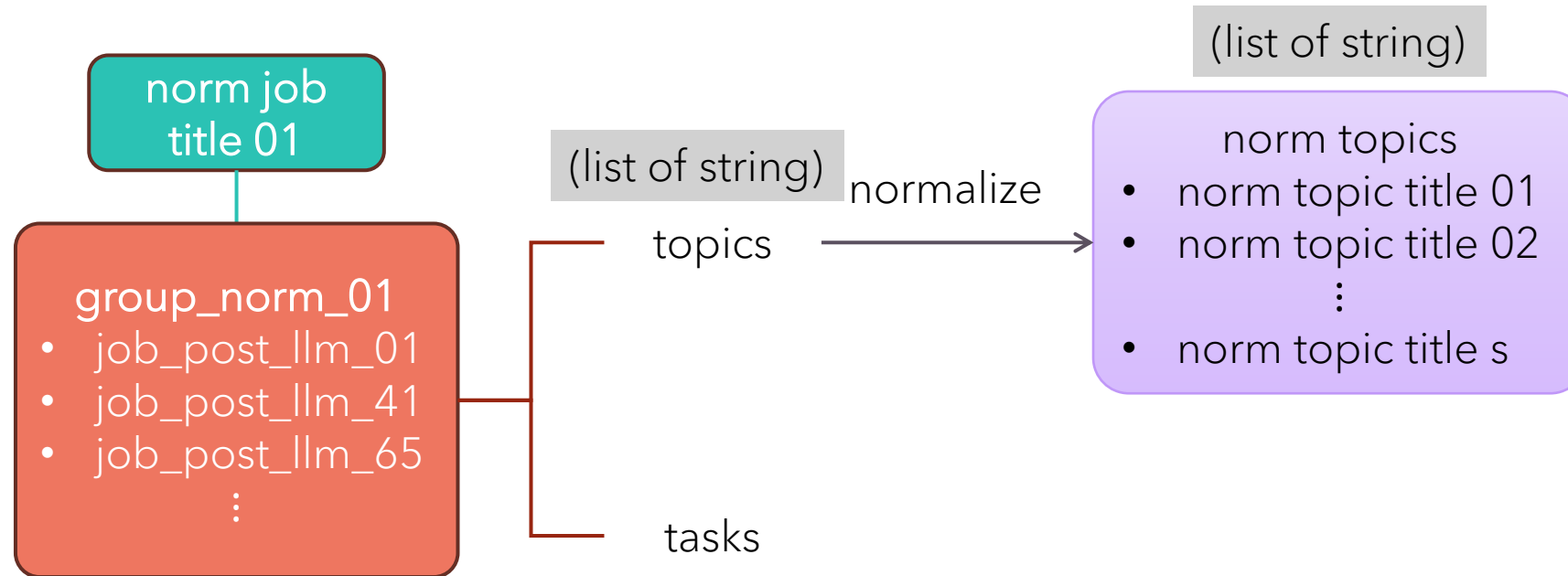
Skill set

Cwf set

Cwf set: cwf management

Cwf set: cwf management