# graph_ubuntu

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CREATE TABLE test.t_tmp_craw_ubuntu_tmp(vul_msg jsonb)


CREATE TABLE test.t_tmp_craw_ubuntu_unnest AS
SELECT tmp.vul_msg ->> 'id' AS id , tmp.vul_msg
FROM
(
    SELECT jsonb_array_elements(t.vul_msg) AS vul_msg
    FROM   test.t_tmp_craw_ubuntu t
)tmp


--vul node
DROP TABLE IF EXISTS test.t_tmp_node_vul_UBUNTU;
CREATE TABLE test.t_tmp_node_vul_UBUNTU AS
SELECT t.id ,
       '[]' AS aliases,
       '{}'::jsonb AS SOURCE,
       jsonb_build_object('title', NULL, 'details', t.vul_msg ->> 'description')  AS description,
       '{}'::jsonb AS weaknesses,
       t.vul_msg -> 'impact' -> 'baseMetricV3' -> 'cvssV3' AS severity,
       jsonb_build_object('published', t.vul_msg ->> 'published', 'lastModified', t.vul_msg ->> 'updated_at', '
       '{}'::jsonb AS vul_status
FROM test.t_tmp_craw_ubuntu_unnest t

SELECT  DISTINCT jsonb_object_keys(tt.vul_msg -> 'impact')  --全部都是 baseMetricV3
FROM (SELECT *FROM  test.t_tmp_craw_ubuntu_unnest t WHERE t.vul_msg -> 'impact' <> 'null') tt

DELETE FROM test.dws_graph_node_vul WHERE vul_source = 'UBUNTU';
ALTER SEQUENCE cve_graph_seq RESTART START WITH 1;
INSERT INTO test.dws_graph_node_vul
SELECT nextval('cve_graph_seq') AS seq, tmp.*
FROM
(
SELECT  DISTINCT  id ,  aliases , "source", description ,weaknesses, severity, time_info,  vul_status, 'UBUNTU'
)tmp ;

SELECT * FROM test.t_tmp_node_vul_UBUNTU LIMIT 10


--affected component  vendor=* module=* ecosystem=*
CREATE TABLE test.t_tmp_graph_node_component_UBUNTU AS
WITH wt_ubuntu_affect AS
(
    SELECT t.id,
           COALESCE(packages ->> 'name', 'unknown') AS product,
           COALESCE(statuses ->> 'release_codename', 'unknown') AS release_codename,
           COALESCE(statuses ->> 'status', 'unknown') AS status_value,
           COALESCE(statuses ->> 'description', 'unknown') AS version_desc
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    FROM test.t_tmp_craw_ubuntu_unnest t ,
    jsonb_array_elements(t.vul_msg -> 'packages') packages,
    jsonb_array_elements(packages -> 'statuses') statuses
)
SELECT tmp.id, '*' AS vendor , tmp.product, '*' AS MODULE, '*' AS ecosystem, jsonb_agg(DISTINCT tmp.affected_ve
       jsonb_agg(DISTINCT tmp.fixed_version) AS fixed_versions
FROM
(
    SELECT CASE WHEN ua.status_value IN ('affected','needs-triage')
                    THEN jsonb_build_object('release', ua.release_codename, 'status', ua.status_value, 'version'
           CASE WHEN ua.status_value IN ('fixed', 'resolved', 'not-affected')
                    THEN jsonb_build_object('release', ua.release_codename, 'status', ua.status_value, 'version'
           ua.id, ua.product
    FROM wt_ubuntu_affect ua
)tmp
GROUP BY tmp.id, tmp.product;

DELETE FROM test.dws_graph_node_affected_component WHERE vul_source = 'UBUNTU';
ALTER SEQUENCE cve_graph_seq RESTART START WITH 1;
INSERT INTO test.dws_graph_node_affected_component
  SELECT nextval('cve_graph_seq') AS seq, tmp.*
  FROM (
    SELECT   DISTINCT product, vendor, module, ecosystem, 'UBUNTU' AS vul_source   FROM   test.t_tmp_graph_node
  )tmp;

SELECT *FROM test.t_tmp_graph_node_component_UBUNTU LIMIT 10;

--affected component
  --seq int , vul_id , component_name , vendor , package_name , ecosystem , repo_url ,
  --platform , collectionUrl , defaultStatus , affected_versions ,  unaffected_versions , vul_source
DELETE FROM test.dws_graph_relationships_affected_components WHERE vul_source = 'UBUNTU';
ALTER SEQUENCE cve_graph_seq RESTART START WITH 1;
INSERT INTO test.dws_graph_relationships_affected_components
  SELECT nextval('cve_graph_seq') AS seq, tmp.*
  FROM (
    SELECT   DISTINCT id, product, vendor, module, ecosystem, '' repo_url, '' AS platform,
             '' AS collectionurl, '' AS defaultstatus, affected_versions, fixed_versions, 'UBUNTU' AS vul_sourc
  )tmp;

--refs
 CREATE TABLE test.t_tmp_graph_node_refs_UBUNTU AS
SELECT t.id , refs ->> 0 AS urls
FROM test.t_tmp_craw_ubuntu_unnest t ,
jsonb_array_elements( t.vul_msg -> 'references') refs;

--node seq int, url varchar, vul_source varchar
DELETE FROM test.dws_graph_node_refs WHERE vul_source = 'UBUNTU';
ALTER SEQUENCE cve_graph_seq RESTART START WITH 1;
INSERT INTO test.dws_graph_node_refs
  SELECT nextval('cve_graph_seq') AS seq, tmp.*
  FROM (
    SELECT   DISTINCT urls, 'UBUNTU' AS source  FROM   test.t_tmp_graph_node_refs_UBUNTU
  )tmp;


 DELETE FROM test.dws_graph_relationships_refs WHERE vul_source = 'UBUNTU';
ALTER SEQUENCE cve_graph_seq RESTART START WITH 1;
INSERT INTO test.dws_graph_relationships_refs
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SELECT nextval('cve_graph_seq') AS seq, tmp.*
FROM (
  SELECT   DISTINCT id,  urls , '' AS tags, '' AS ref_desc , 'UBUNTU' AS vul_source  FROM   test.t_tmp_graph_
)tmp;
```