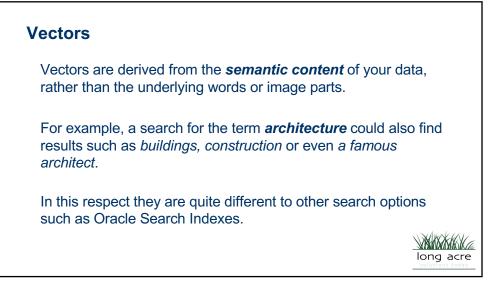


What is AI Vector Search

Al Vector Search enables you to search structured and unstructured data based on its semantics or meaning, in addition to its values.





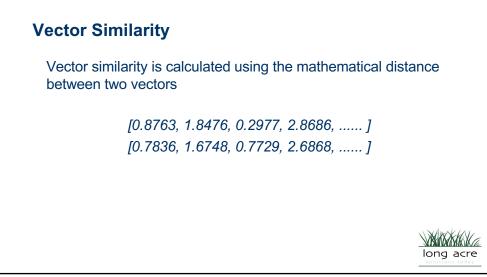
Vectors

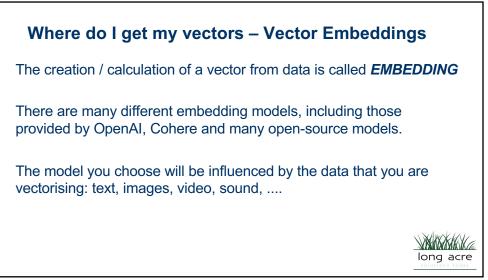
From a simplistic point of view, a vector is simply a list of numbers.

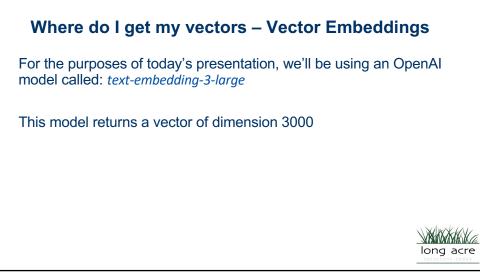
The number of dimensions that a vector has is how many numbers it contains.

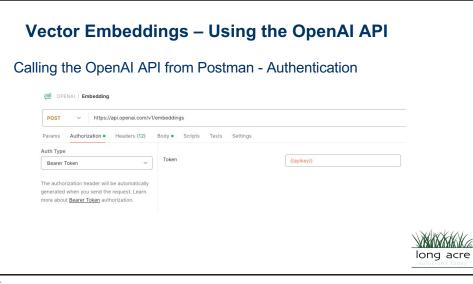
[0.8763, 1.8476, 0.2977, 2.8686,]

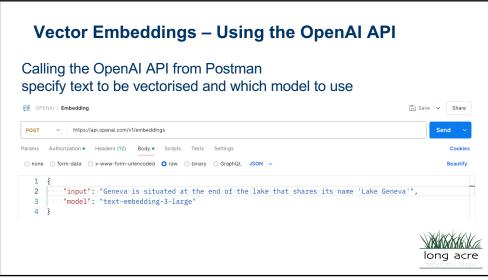
long acre

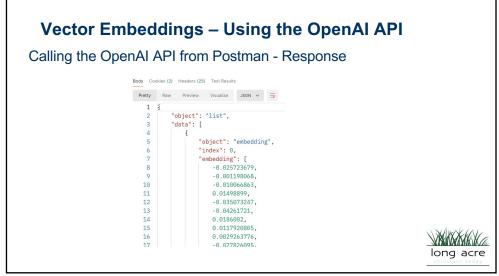




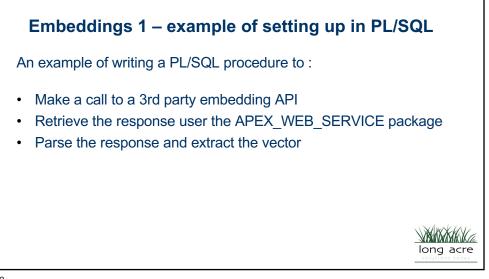


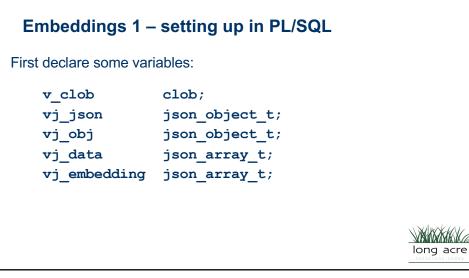


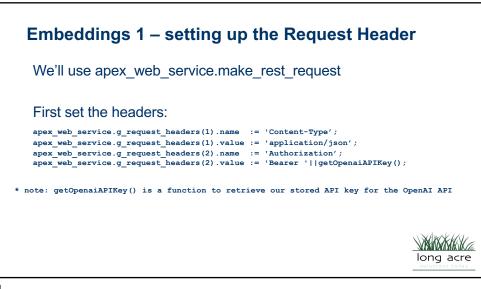




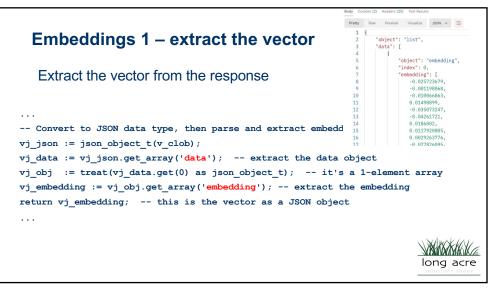


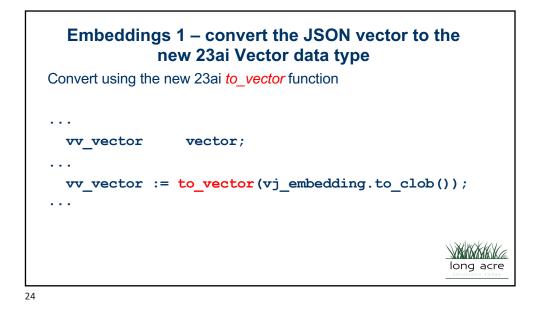


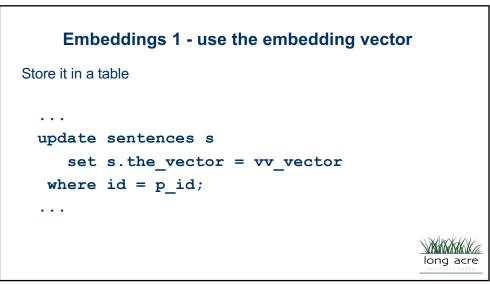




Embeddings 1 – getting the response Call and get the response from the OpenAI Embedding API: . . . -- Get the response from the web service. v clob := apex web service.make rest request (p url => 'https://api.openai.com/v1/embeddings', p http method => 'POST', => '{"model": "'||p model p body ||'", "input": "' ||trim(lower(p input))||'"}'); . . . * note: p model is 'text-embedding-3-large' p input is the sentence that we want the embedding for long acre 22

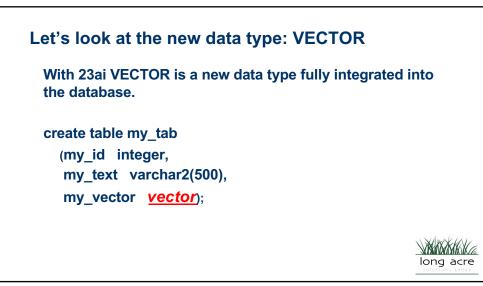


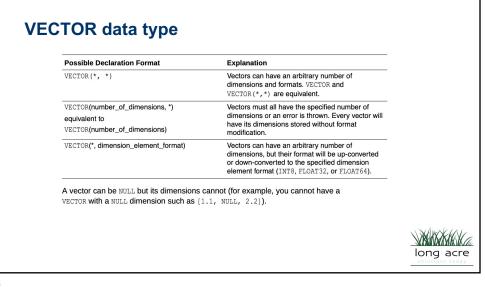




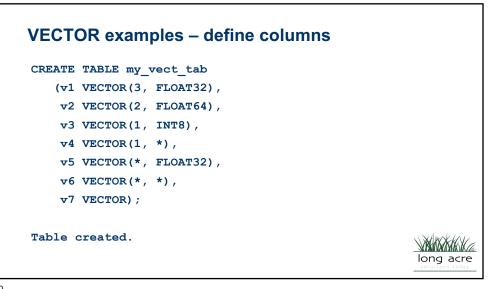
| We can now use the embedding View our sentences table with its vectors populated | |
|--|--|
| | |
| ID THE_TEXT | THE_VECTOR |
| 1 Ljubljana, Slovenia is admired for its charming city center and lively atmosphere. 2 Split, Croatia is famous for the ancient Diocletian's Palace and its Adriatic coast. 3 Ljubljana, Slovenia is recognized for its friendly people and green spaces. 4 Sofia, Bulgaria is celebrated for its Orthodox churches and vibrant city life. 5 Bucharest, Romania is known for its mix of historical and modern architecture. 6 Belgrade, Serbia is admired for its fortresses and riverside setting. 7 Sarajevo, Bosnia and Herzegovina is famous for its diverse culture and historical significance. 8 Tirana, Albania is recognized for its colorful architecture and dynamic cultural scene. 9 Skopie, North Macedonia is noted for its celctic blend of old and new buildings. | [3.92498486E-002, 3.8745027E-002, - [3.04311961E-002, -4.5256348E-002, [3.82775864E-002, 4.74944785E-002, [1.3237983E-002, -7.41957454E-003, [7.14117195E-003, -1.28046563E-003] [5.80095729E-002, -1.5712929E-002, [5.80095729E-002, -1.5712929E-002] [3.2055125E-002], 7.446585E-003 [3.2055125E-002], 7.446585E-003 |
| 9 Skopje, Workin macedonia is moted for its ecterile other of otd and new burldings. 10 Pristina, Kosovo is admired for its youthful energy and growing arts scene. Prows selected. | [4.37207781E-002,1.52237155E-002, |
| | |
| | long acre |

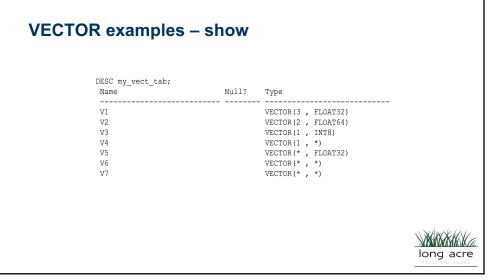


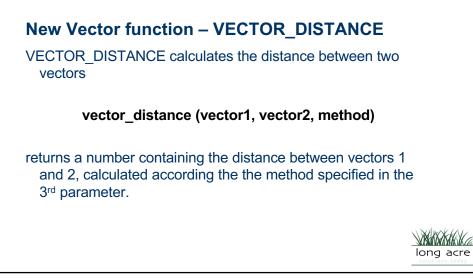


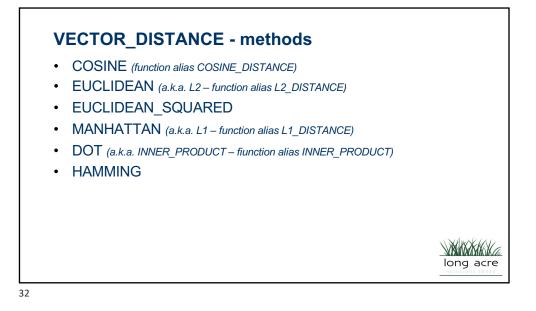


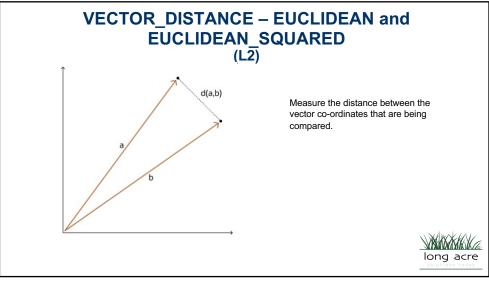


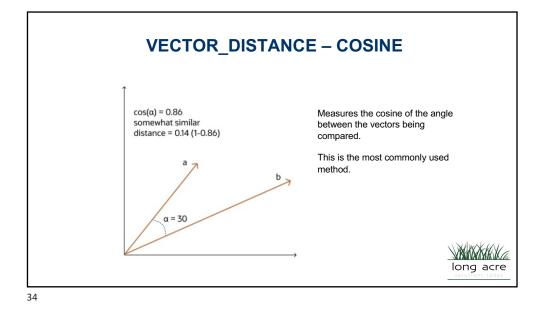


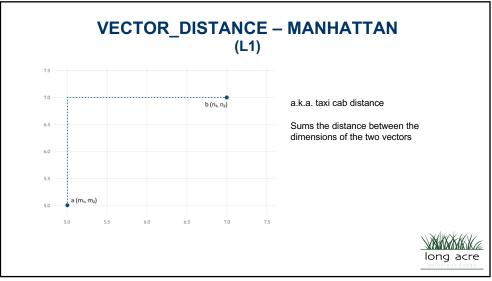


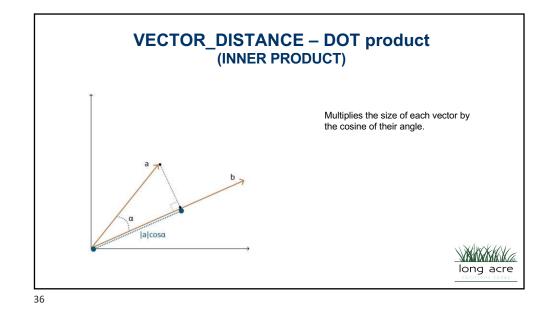


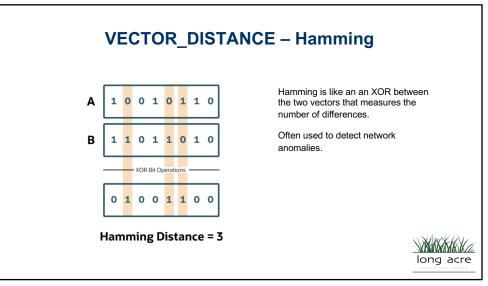


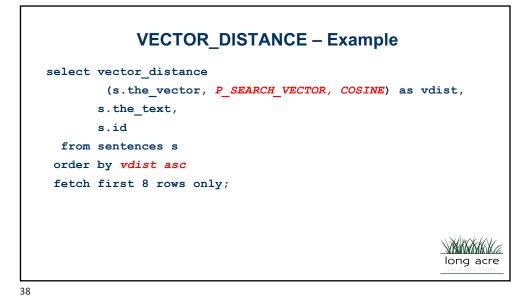


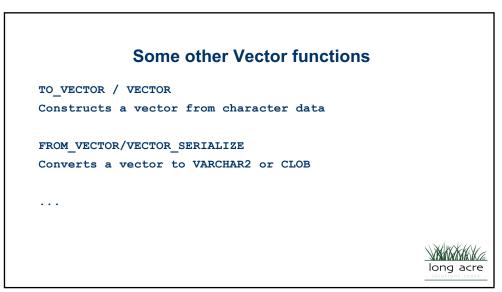


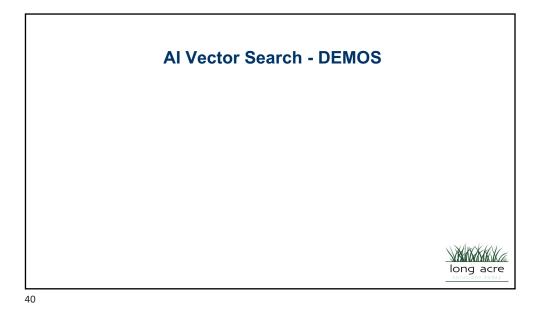




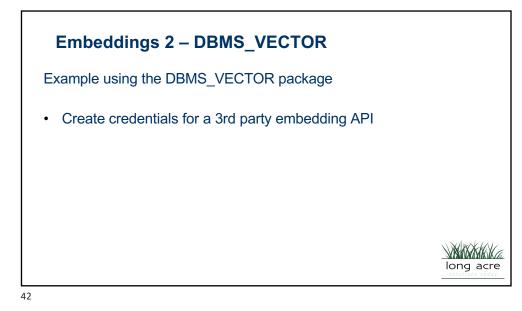




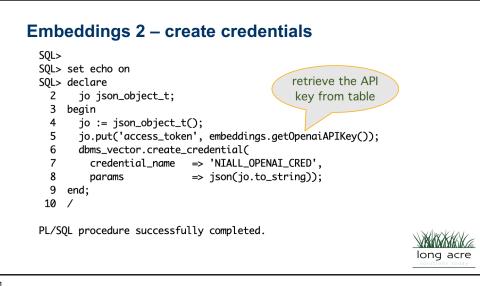


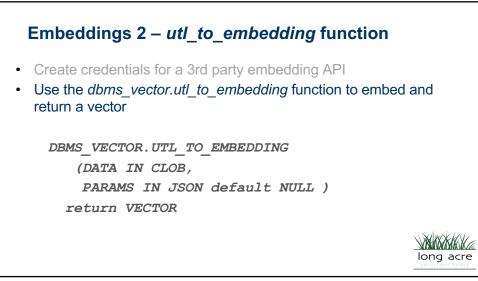


<section-header><section-header><text><text><text><text><text><text>



```
Embeddings 2 - create credentials
declare
   jo json_object_t;
begin
   jo := json_object_t();
   jo.put('access_token', 'sk-*****'); -- api key
   dbms_vector.create_credential(
        credential_name => 'NIALL_OPENAI_CRED',
        params => json(jo.to_string));
end;
/ Long acreents
```





Embeddings 2 - utl_to_embedding function parameters example { "provider": "openai", "credential_name": "NIALL_OPENAI_CRED", "url": "https://api.openai.com/v1/embeddings", "model": "text-embedding-3-large" }

