



Northwind Traders

Identity access analysis (synthetic demonstration data)

Prepared 15 August 2026

Summary

31,139

findings across 2,000 identities — all still open

2,000
Identities

25.4K
Accounts
15 orphaned

1,499
Entitlements

20
Applications

47
Candidate roles

44
Peer groups

Findings



This run recorded 28,811 access outliers and 2,328 hygiene issues.

They concentrate in a few peer groups: Human Resources / Human Resources Associate (5,354); IT / IT Associate (2,430); Human Resources / Manager, Human Resources (2,181). How unusual access looks is measured against peers, so a large group makes any single holder look rarer than a small one does.

Of the 28,811 findings measured against peers, 22% are a lone holder: one person with access nobody else in their peer group has.

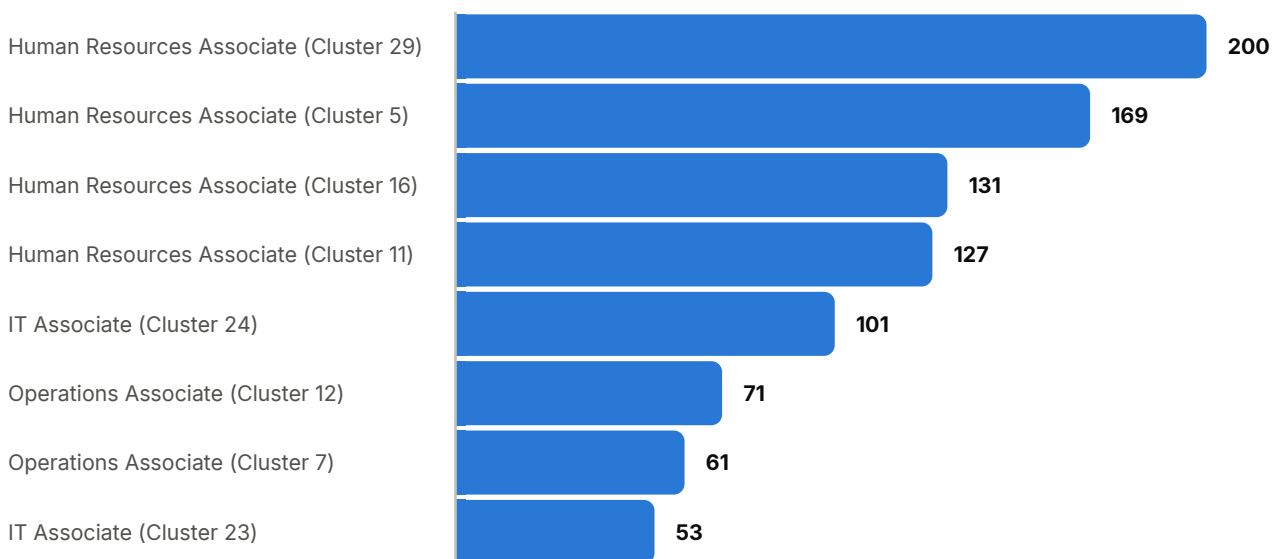
12 of 31,139 findings, one from each of 12 peer groups, so the table spans the estate rather than ranking into one corner of it. The complete set is in the Excel and CSV exports.

Subject	Access	Type	Score	Why
Casey Jain	FIN_HR_EDIT_L2	Outlier	0.998	0.24% of 417 peers in 'Human Resources / Human Resources Associate' hold this.
Ari Ortiz	CN=HRIS-PO-Team,OU=Groups,DC=corp,DC=example,DC=com	Outlier	0.994	0.6% of 167 peers in 'Operations / Operations Associate' hold this.
Riley Udo	CN=NETW-RPT-Team,OU=Groups,DC=corp,DC=example,DC=com	Outlier	0.994	0.6% of 166 peers in 'IT / IT Associate' hold this.
Umi Udo	AAD_INV_APPR_L3	Outlier	0.992	0.84% of 119 peers in 'Security / Security Associate' hold this.

Subject	Access	Type	Score	Why
Ellis Vega	Sap AR Group 210	Outlier	0.991	0.88% of 113 peers in 'Human Resources / Human Resources Analyst' hold this.
Blair Bello	ROLE_MKTG_ADM_L1	Outlier	0.991	0.92% of 109 peers in 'Human Resources / Senior Human Resources Analyst' hold this.
Harper Bauer	1461a2b8-ae43-0ae8-551e-b22eebd21ee7 no name in source data	Outlier	0.989	1.12% of 89 peers in 'Legal / Legal Associate' hold this.
Gale Quan	AAD_ADM_POST_L1	Outlier	0.988	1.19% of 84 peers in 'Marketing / Marketing Associate' hold this.
Gale Tran	AAD_AR_DELETE_L1	Outlier	0.988	1.22% of 82 peers in 'Human Resources / Manager, Human Resources' hold this.
Pat Imani	GH_PO_DELETE_L1	Outlier	0.983	1.67% of 60 peers in 'Support / Support Associate' hold this.
Ira Kaur	LEGL_ADM_WRITE_L1	Outlier	0.983	1.69% of 59 peers in 'Finance / Finance Associate' hold this.
Bao Gomez	CN=BI-HR-Team,OU=Grou ups,DC=corp,DC=exampl e,DC=com	Outlier	0.981	1.92% of 52 peers in 'IT / IT Analyst' hold this.

Candidate roles

Each role below was discovered from the access people actually hold, not taken from the organisation chart. The cluster in a role's name is the group of similar-access people it was mined from, so two roles can share a department and title and still be different roles.



Human Resources Associate (Cluster 29)

200 members · 98 entitlements · 72% coverage

4490d64d-e366-a125-766b-a4f495121d92, 4e0e3ddc-977d-82d9-4cef-42a1d4924a4c, BILL_AP_VIEW_L1, BILL_AR_WRITE_L2, BILL_GL_ADMIN_L3, BILL_GL_EDIT_L1, BILL_GL_READ_L1, BILL_HR_DELETE_L1, BILL_HR_READ_L2, BILL_INV_ADMIN_L3 +88 more

Human Resources Associate (Cluster 5)

169 members · 79 entitlements · 81% coverage

647c814d-9af1-1e40-7a73-15ac7fc876aa, 8ee97a35-16be-651c-137a-bc13b73eef1c, AD_AR_APPR_L1, BILL_HR_READ_L2, BILL_RPT_EDIT_L3, BI_GL_DELETE_L1, BI_INV_WRITE_L1, BI_IT_DELETE_L3, BI_IT_VIEW_L1, BI_PAY_EDIT_L2 +69 more

Human Resources Associate (Cluster 16)

131 members · 76 entitlements · 79% coverage

1c3878bd-8264-0686-4c32-2ca312ef8821, 8ee97a35-16be-651c-137a-bc13b73eef1c, 9cd61a16-6fba-e823-dea5-9a3dab4f8fcb, BILL_IT_WRITE_L3, BILL_RPT_APPR_L2, BI_PO_ADMIN_L2, CN=VPN-HR-Team,OU=Groups,DC=corp,DC=example,DC=com, HRIS_PAY_POST_L3, JIRA_ADM_APPR_L2, JIRA_ADM_VIEW_L3 +66 more

Human Resources Associate (Cluster 11)

127 members · 64 entitlements · 92% coverage

22d7ed99-6551-76cf-7007-caa092df8042, 32473dff-a8ec-fa5a-fed7-9b772aff3159, AD_AP_READ_L3, AD_HR_EDIT_L1, AD_INV_EDIT_L2, AD_RPT_WRITE_L1, BILL_ADM_DELETE_L1, BILL_ADM_READ_L3, BILL_AR_ADMIN_L3, BILL_AR_VIEW_L2 +54 more

IT Associate (Cluster 24)

101 members · 97 entitlements · 76% coverage

0d497427-d7e1-7fec-783f-7c2a72db1ea2, 1676b9f0-2eea-4b9c-2f8c-325cb2a591da, BILL_ADM_DELETE_L1, BILL_ADM_POST_L3, BILL_AP_WRITE_L2, BILL_AR_ADMIN_L3, BILL_AR_READ_L1, BILL_AR_VIEW_L2, BILL_GL_ADMIN_L3, BILL_GL_EDIT_L1 +87 more

Methodology

Every figure in this report comes from a single analysis run. The parameters below are the ones that run used; re-running with them reproduces these results exactly.

Product: Cleave

Project: Northwind Traders

Client:

Analysis run: 019d4602-6cb1-4a05-b7e9-eededb3be7a5

Run status: complete

Run started: 2026-08-15 11:46:22

Run finished: 2026-08-15 11:46:31

Engine version: 1.0

Report generated: 2026-08-15 11:46:33+00:00

Count: candidate_roles: 47

Count: effective_access: 204,751

Count: findings: 31,139

Count: heuristic_risk_tags: 0

Count: peer_groups: 44

Parameter: apply_risk_heuristics: True

Parameter: data_scope: None

Parameter: dormancy_days: 90

Parameter: outlier_max_why_groups: 5

Parameter: outlier_min_score: 0.8

Parameter: peer_groups.attribute_quality_null_threshold: 0.3

Parameter: peer_groups.attributes: department, title

Parameter: peer_groups.cluster_distance_threshold: 0.5

Parameter: peer_groups.max_identities_for_clustering: 20000

Parameter: peer_groups.method: attribute

Parameter: peer_groups.min_members: 3

Parameter: peer_groups.specificity_depth_weight: 0.25

Parameter: peer_groups.specificity_target_size: 25

Parameter: risk_weights.financial: 1.3

Parameter: risk_weights.high: 1.4

Parameter: risk_weights.low: 0.8

Parameter: risk_weights.medium: 1.0

Parameter: risk_weights.pii: 1.2

Parameter: risk_weights.privileged: 1.5

Parameter: role_mining.enable_hierarchical_merge: True

Parameter: role_mining.grouping_method: agglomerative

Parameter: role_mining.max_candidates: 500

Parameter: role_mining.max_entitlements_per_role: 250

Parameter: role_mining.merge_jaccard_threshold: 0.85

Parameter: role_mining.min_coverage: 0.6

Parameter: role_mining.min_members: 5

Parameter: scope: None

Parameter: seed: 0

Parameter: sod_ruleset:

Warning 1: No last-login data was provided, so no account was checked for dormancy. This is not a clean result — the check did not run.