



Location = Vancouver

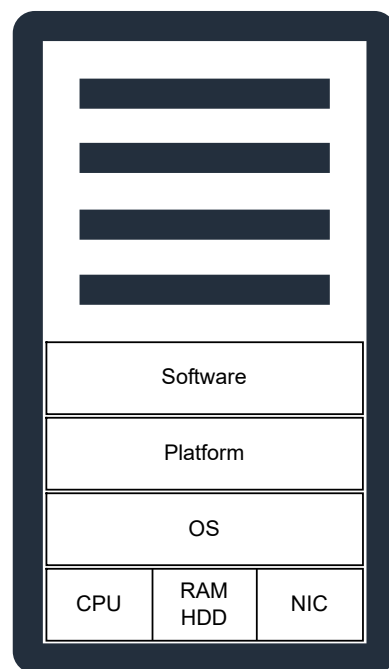
UCW Operational Environment



General Server



Specific Server - Role



Specific Server - End User



AWS Data Center



UCW Account



UBC /



Region = Virginia

Availability Zone = 1-a

UCW Operational Environment

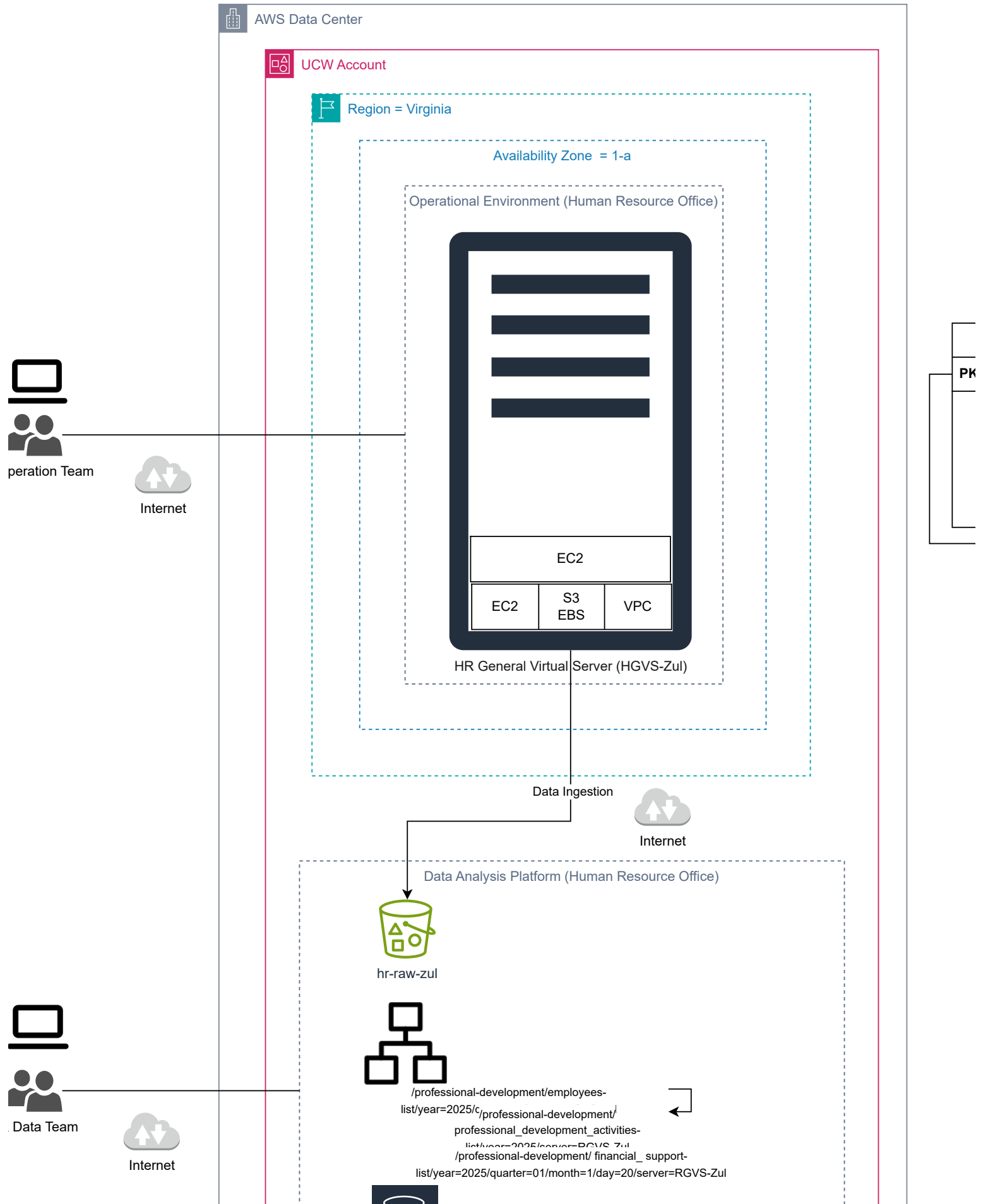


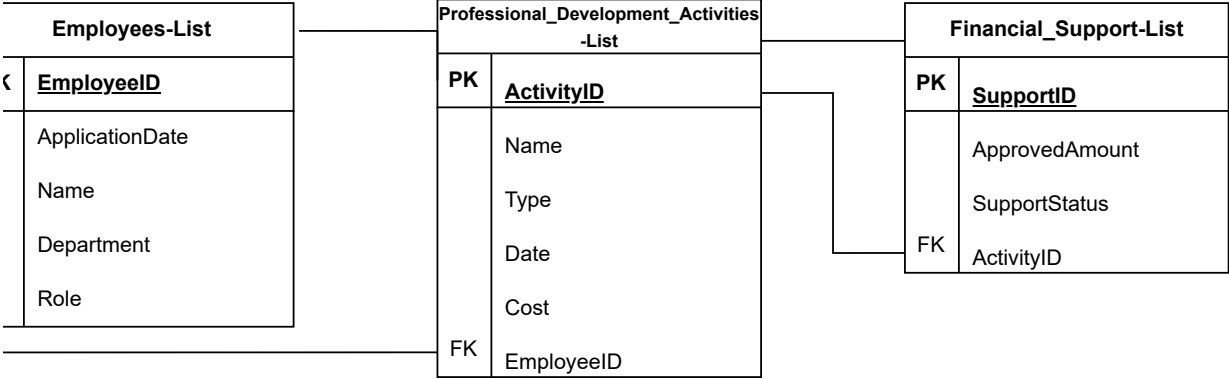
General Server

IT Services



Account





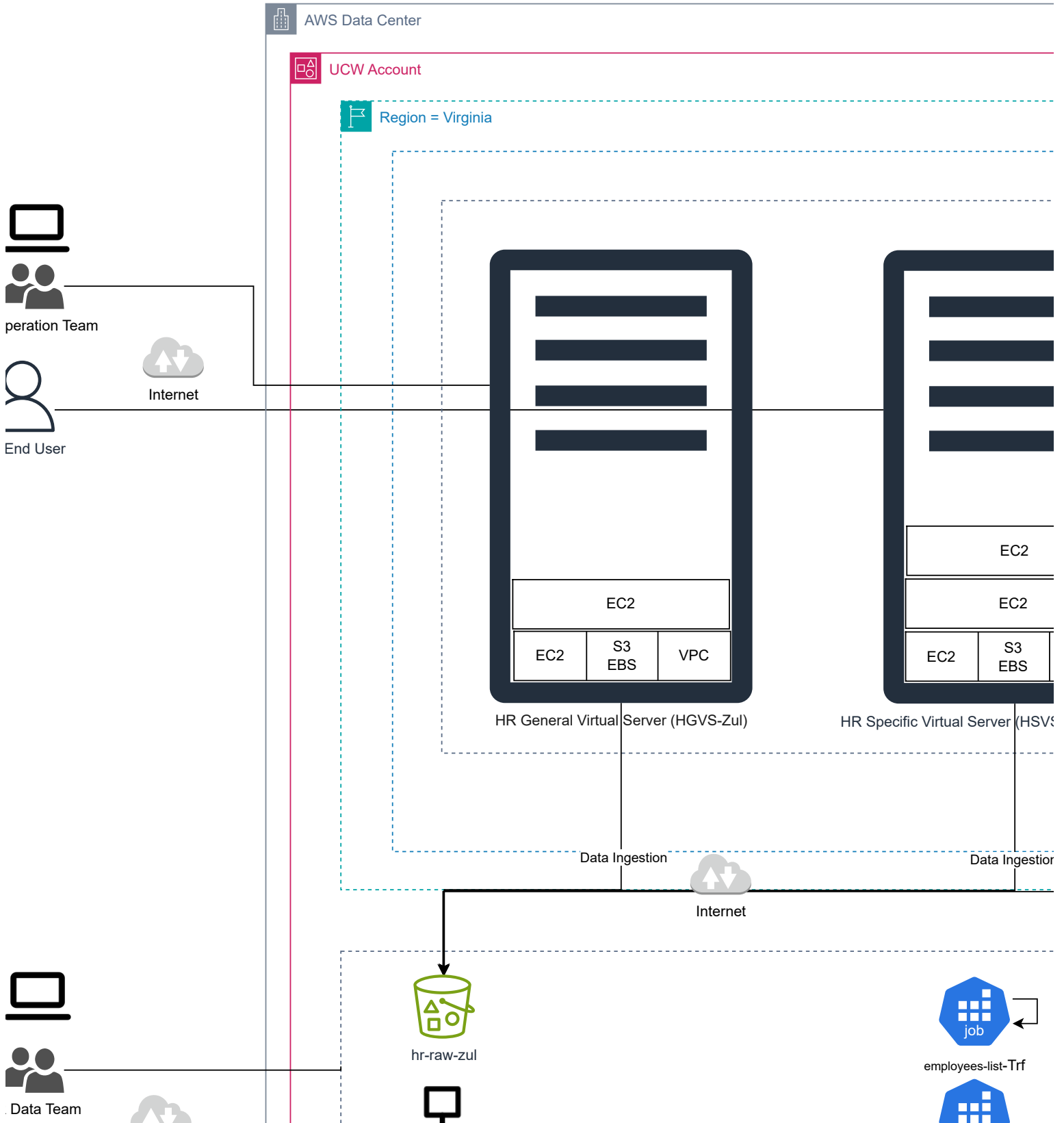


Amazon S3

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HR OI

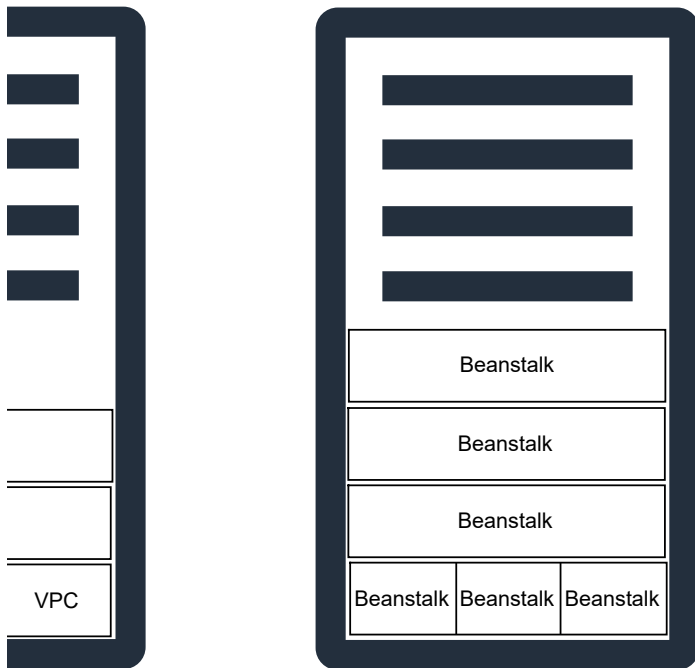
(
L
HR E

•
I
HR



Availability Zone = 1-a

Operational Environment (HR Office)



S - Zul) - Web Server

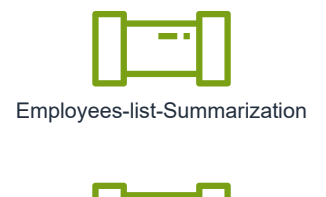
HR Web Application (HWA - Zul)

n Data Ingestion

Data Analysis Platform (Human Resource Office)

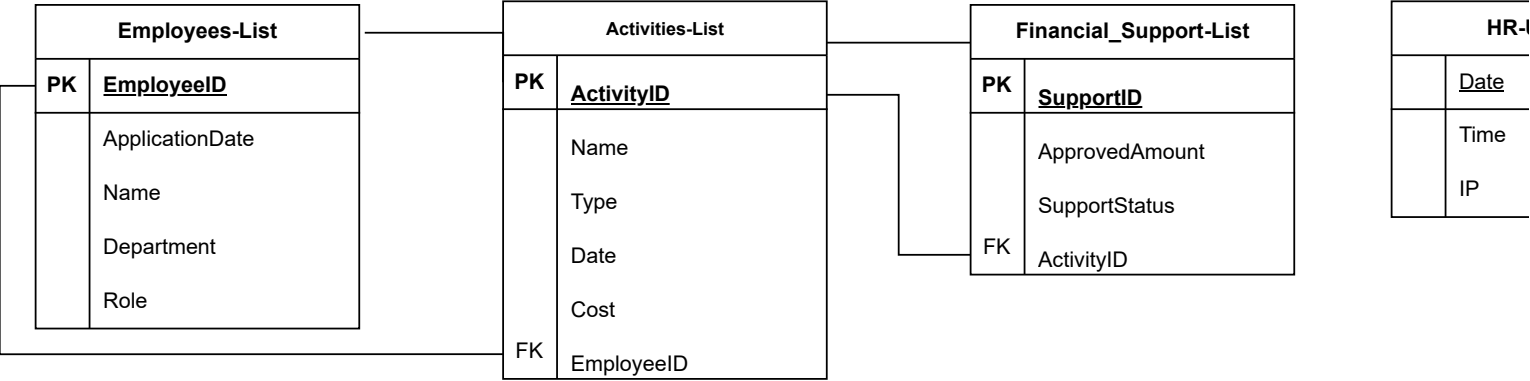


hr-trf-zul



Employees-list-Summarization





Data Enriching		
	Table	Join
	Employees-List Financial- support-List	Left Join

Data Summarization Cost Analysis				
Employees-List	Glue interactive sessions (#)	Glue interactive sessions Nodes	Glue Job Nodes	
	2	2	10	
Activities-List	2	2	10	
ort-List				



User-Log

Registrar-App-Log	
	<u>Date</u>
	Time
	Message

Glue Job Duration
2:14 mins
2:33 mins

pg	Financial_Support-List	Invalid Value	
		Incorrect Value	
	Activities-List		
	Employees-List		

Outdated Value	Outlier Value	Missing Value	Typo I

Dataset Quality Analysis			
Issue	Granularity Issue	Encoding Issue	Incorrect Datatype

Inconsistent Formatting	Inconsistent Values	Unbalanced Values	Cross

s-Field Issue	Duplicated Values	Irrelevant Values	Integration Issue

	Redundant Values



/professional-development/employees-
list/year=2025/q/professional-development/
professional development activities-
/professional-development/ financial _ support-
list/year=2025/q/professional-development/ financial _ support-3VS-Zul
list/year=2025/quarter=01/month=1/day=20/server=HGVS-Zul
log/year=2025/quarter=01/month=1/day=28/server=HSVS-Zul
/professional-development/ in-user-
/professional-development-semi-ds/



Amazon S3



activities-list-Trf



financial-support-list-Trf



semi-job-Trf



Glue Databrew



/professional-development/employees-list/user/
/brofessional-development/emplovees-
/professional-development/activities-
list/user/
/pt/professional-development/financial-
support-list/user/
/professional-development-semi.inancial-
ds/user/t-list/system/
/professional-development/semi-
ds/system/



Amazon S3



hr-crw-zul



Activities-list-Summarization



Financial-Support-list-Summarization



Employees-Financial-Support-join



HR-data-catalog-zul



AWS Glue

Employees-List	
PK	

Activities-List	
PK	

Financial_Support-List	
PK	

emp-fnc-sprt-join	
PK	

Employees-list-Summarization	
PK	

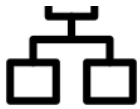
Activities-list-Summarization	
PK	

Financial-Support-list-Summarization	
PK	



AWS Glue



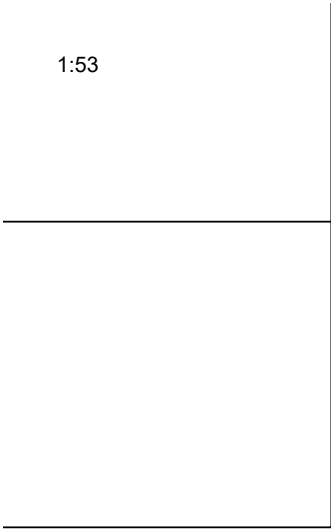


/professional-development/employees-
list/metrics/
/professional-development/activities-
list/metrics/
/professional-development/ financial-
support-lis
development/employees-list-inancial-
support-list/metrics/



Amazon S3

HR-User-Log				
Financial_Suppc	2	2	10	



HR-User-Lc		
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Employees-List	Storage Class	Object Size	
	Standard IA in Multiple AZ IA in one AZ Glacier Glacier Deep Archive Intelligent	4.3 KB	
Activities-List			
Financial_Support-List			
HR-User-Log			

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Data Ingestion Cost Analysis			
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# of Read Requests	# of Write Requests	Total Amount	Inbound Data
1/4	0	4.3 KB	4.3 KB

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Data Transfer	Outbound Data Transfer
KB	0

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