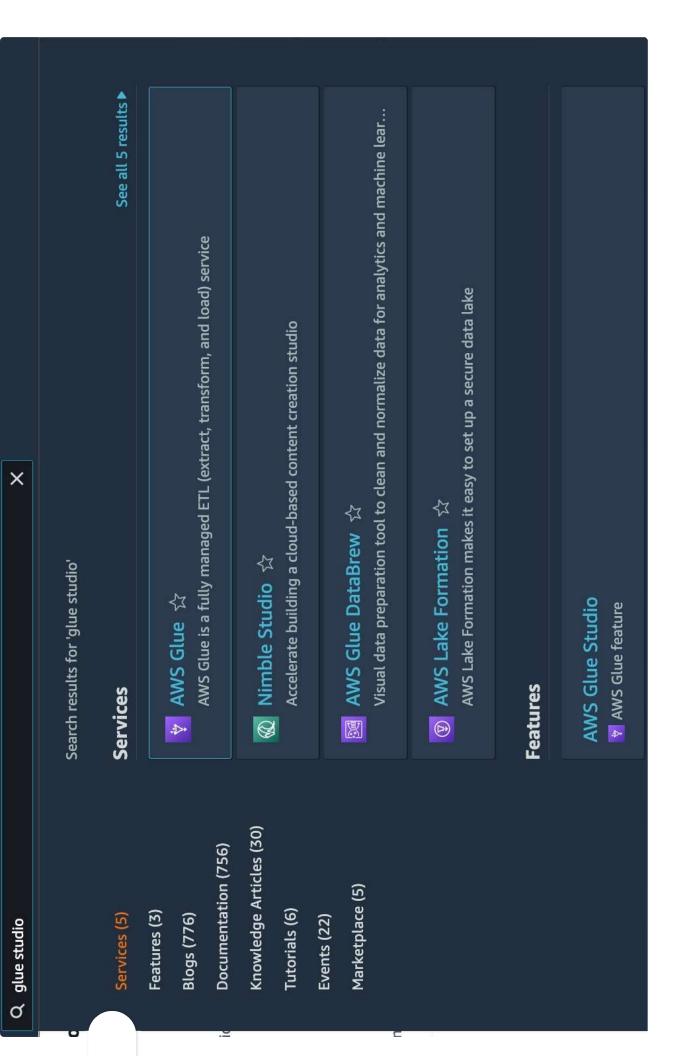
My Programs

## → Jining with Secondary Tables

# Create an Accelerometer Trusted Zone

If we have the sensitive data in the accelerometer landing zone, we can write a glue job that filters the data and moves compliant records into an accelerometer trusted zone for later analysis. Let's go to Glue Studio, and create a new Glue Job.

Search for Glue Studio in the AWS Console search bar



Click the three bars (hamburger menu) on the upper left corner of the AWS Console



#### Click **Jobs**

AWS Glue Studio	×
Jobs	
Monitoring	
Connectors	
Sensitive data detection	_
What's new	
▼ Glue console	
Glue catalog 🔼	
Crawlers 🔼	
Security configurations	<u>\( \)</u>
Marketplace	
Documentation 🖸	

Jobs menu

Accept the Visual with a source and target, then click Create



AWS Glue Studio > Jobs

You should see the **default** visual data flow

### Onfigure the Job

Jefine Names for:

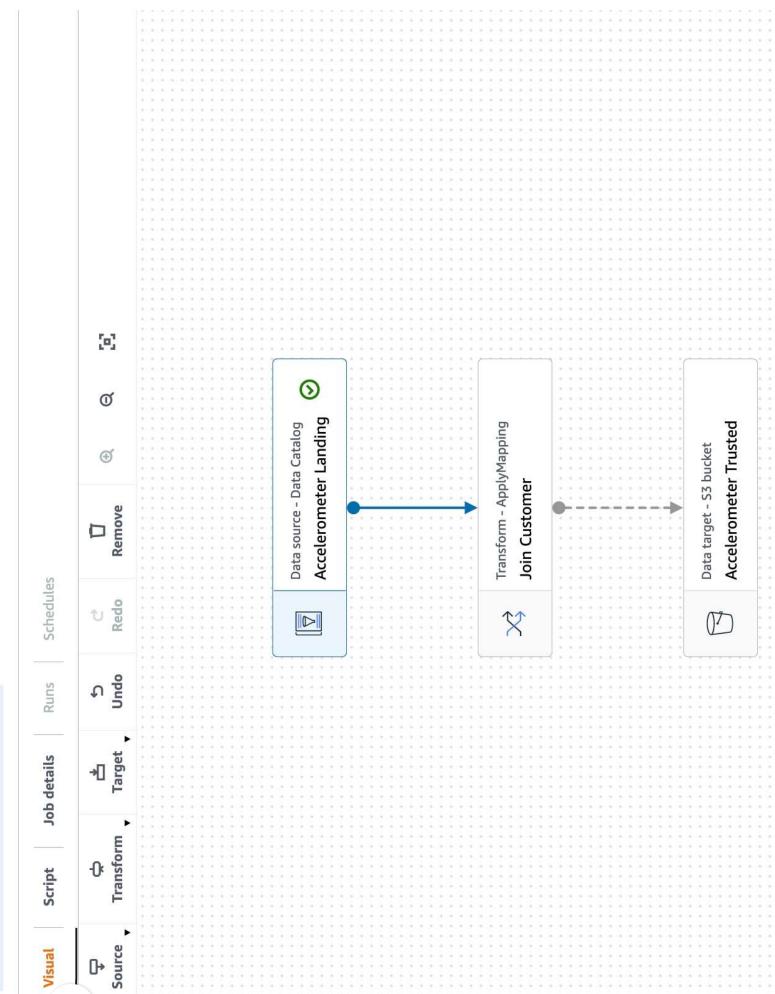
- Job (Accelerometer Landing to Trusted)
- Accelerometer Landing Node
- Join Customer Node
- Accelerometer Trusted Node

Define:

- IAM Role
- Job name
- Data Source Data Catalog table (accelerometer\_landing)

The Visual Graph should look similar to this (we're not finished!):

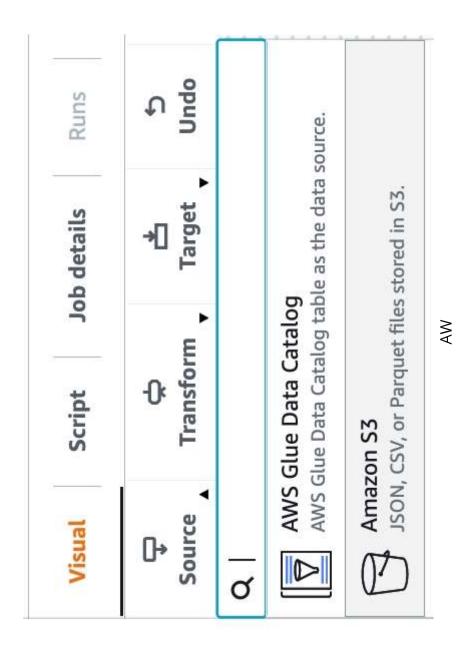
- Data source type is **Data Catalog** (the accelerometer\_landing table we created earlier)
- Transform type defaulted to **ApplyMapping** but the actual transformation will be a **Join**
- Data target defaulted to S3 (we will change this to Data Catalog later)



### Configure the Node

We need the Customer Trusted Zone S3 datasource. Click the Source dropdown, click

Thazon 53:



- Configure the Amazon S3 datasource to point to the **Customer Trusted Zone** S3 location
- Name the Node (Customer Trusted Zone)
- Click the Infer schema button



ck the Output schema tab and you should see the inferred schema:

Node properties Data source properties - 53	Output schema	Data preview	X
Schema Info			Edit
Key		Data type	Partition
serialNumber		-	
shareWithPublicAsOfDate		- guol	
birthDay		- string	
registrationDate		- guol	
shareWithResearchAsOfDate		- guol	
customerName		- string	
email		- string	
lastUpdateDate		long	
phone		- string	
shareWithFriendsAsOfDate		- long	

### Customer Trusted Zone Data Source Schema

Check out our newly created join!

#### Join type

Select the type of join to perform.



Inner join Select all rows from both datasets that meet the join condition.

### Join conditions

Select a field from each parent node for the join condition.



The Join transform requires two parent source nodes with selected tables. Insufficient source nodes
The Join transform

### Connect the Customer Trusted Zone node

Name

Join Customer
Node type Choose which type of node to add to the job.
Join two sources into one output using a column header.
Node parents Choose which nodes will provide inputs for this one.
Select parents
۵
Data sources
Accelerometer Landing Catalog - DataSource
Customer Trusted Zone S3 - DataSource
Transforms
Unclassified nodes

Click Add Condition

### Join conditions

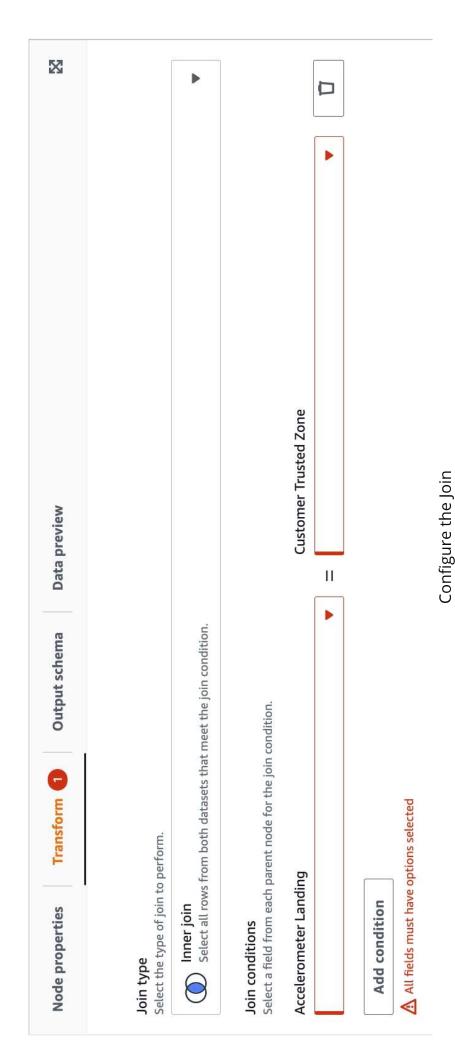
Select a field from each parent node for the join condition.

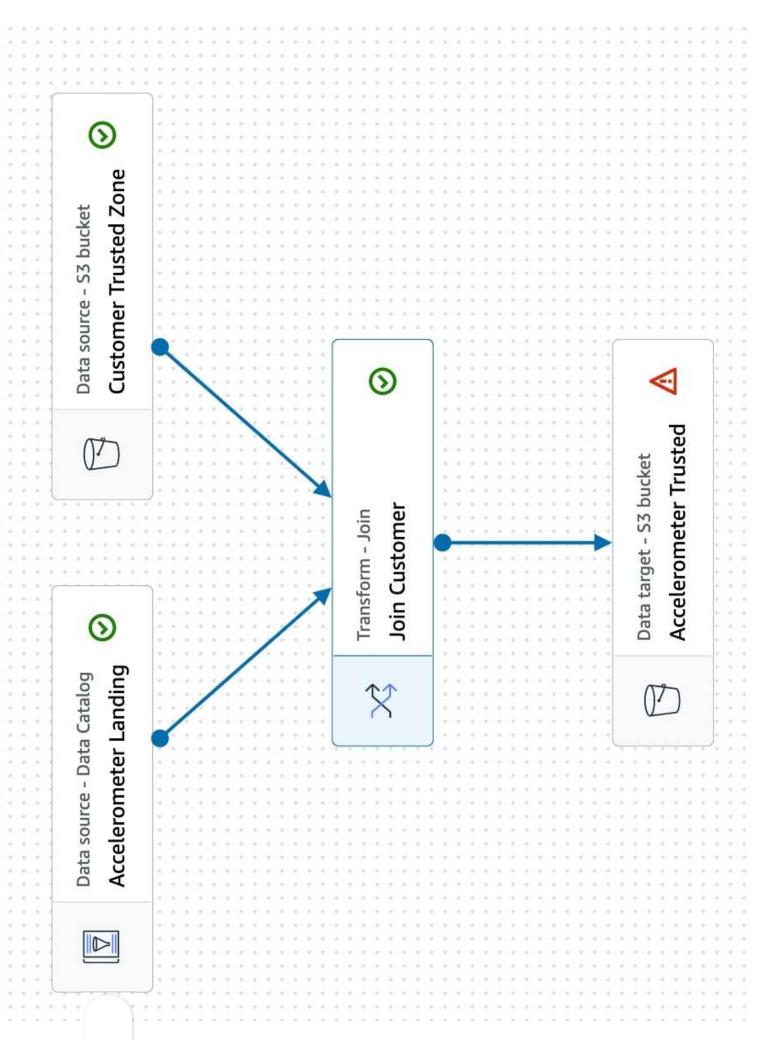
### Add condition



### Add Condition

Choose the join fields you identified earlier to join accelerometer and customer





## Accelerometer Trusted Zone

Click the Accelerometer Trusted Node

- Click Data target properties tab
- Add the new S3 path to the Accelerometer Trusted Zone: be sure it ends with a /
- Do not update the Data Catalog
- Choose the JSON format
- Leave Compression Type None

#### Format

JSON

Compression Type

None

Choose an S3 location in the format s3://bucket/prefix/object/ with a trailing slash (/).

S3 Target Location

Q s3://seans-stedi-lakehouse/accelerometer/trusted/

**Browse 53** 

 $\sum$ 

View

X

Data Catalog update options Info

Choose how you want to update the Data Catalog table's schema and partitions. These options will only apply if the Data Catalog table is an S3 backed source.

- Do not update the Data Catalog
- Create a table in the Data Catalog and on subsequent runs, update the schema and add new partitions
- Create a table in the Data Catalog and on subsequent runs, keep existing schema and add new partitions

Partition keys - optional

Add partition keys.

Add a partition key

### Glue Table

ine a Glue Table. Choose one of those methods to create an Accelerometer Trusted ات the previous exercises, we used the Glue Console and the Athena Query editor to **cone** table.

Click output schema to see the generated schema, notice the fields from **both** tables appear

Node properties - 53	Output schema	Data preview	X
Schema			
Кеу		Data type	Partition
user		string	ı
timestamp		long	1
×		float	1
>		float	1
		float	,