



Add Company Name



Information available in audio.

# DATA ENGINEER COURSE

Project cuối khóa



PRESENTED BY

Nguyễn Phước Nguyên Phúc

21/09/2023



Add Company Name

# Agenda



Architecture overview



Architecture detail

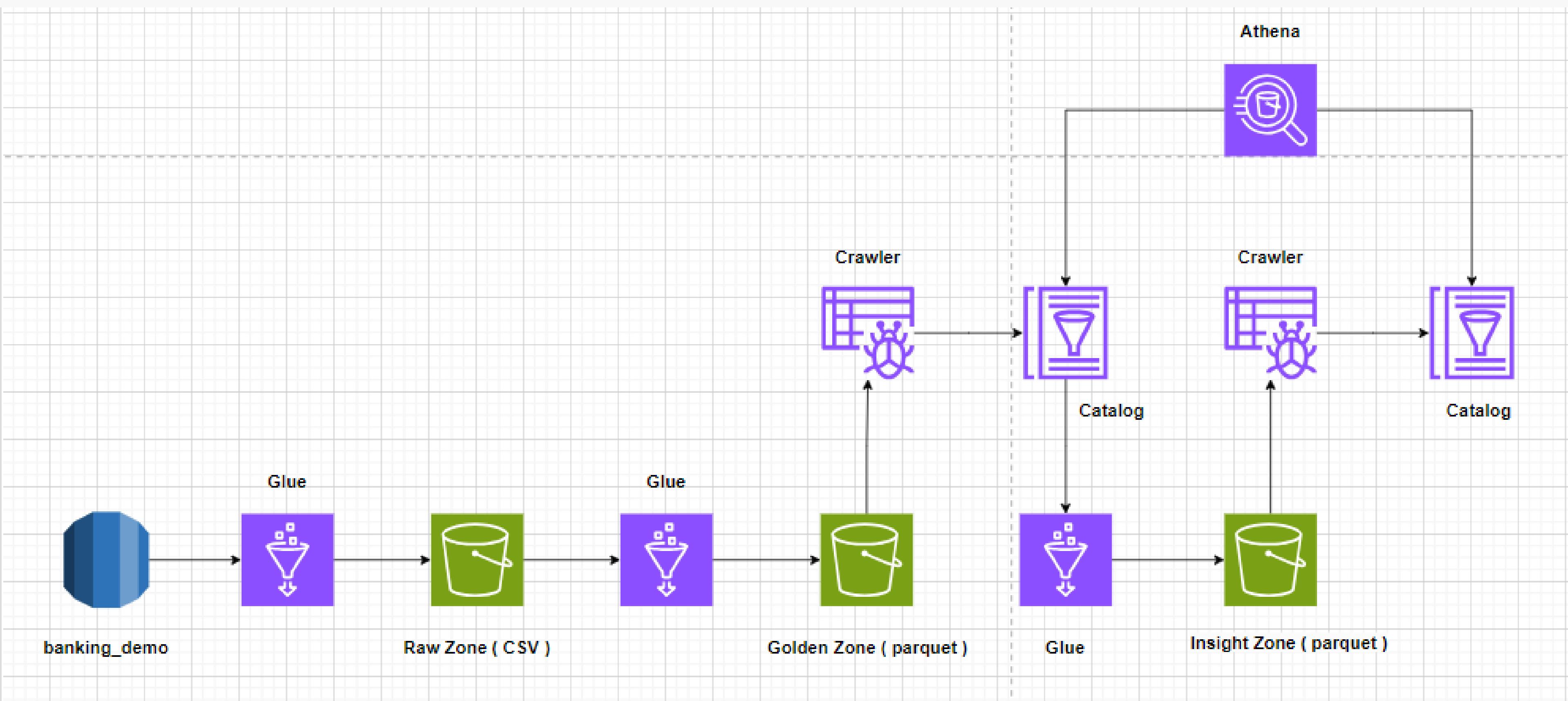


Auto flow



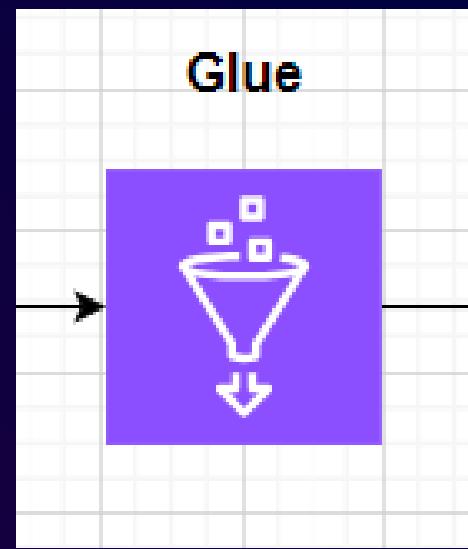
Proposed Timeline

# 1. Architecture Overview



# Raw Zone

Tables (10)
> account
> account_type
> address
> card
> card_transaction
> card_type
> customer
> customer_cdc
> payment_transaction
> payment_type

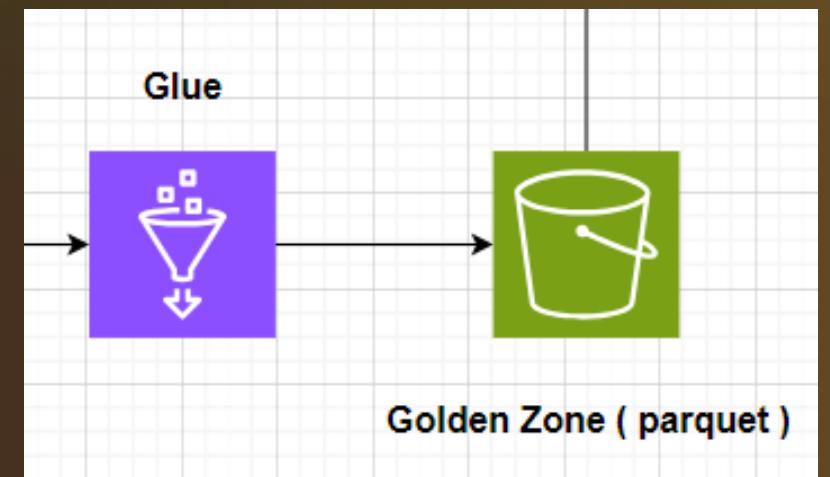


ai4e-ap-southeast-1-dev-glue-jb-s2r\_lilwin

Name
2023-09-19/
2023-09-20/
2023-09-21/
account/
account_type/
address/
card/
card_transaction/
card_type/
customer/
customer_cdc/
payment_transaction/
payment_type/



# Golden Zone



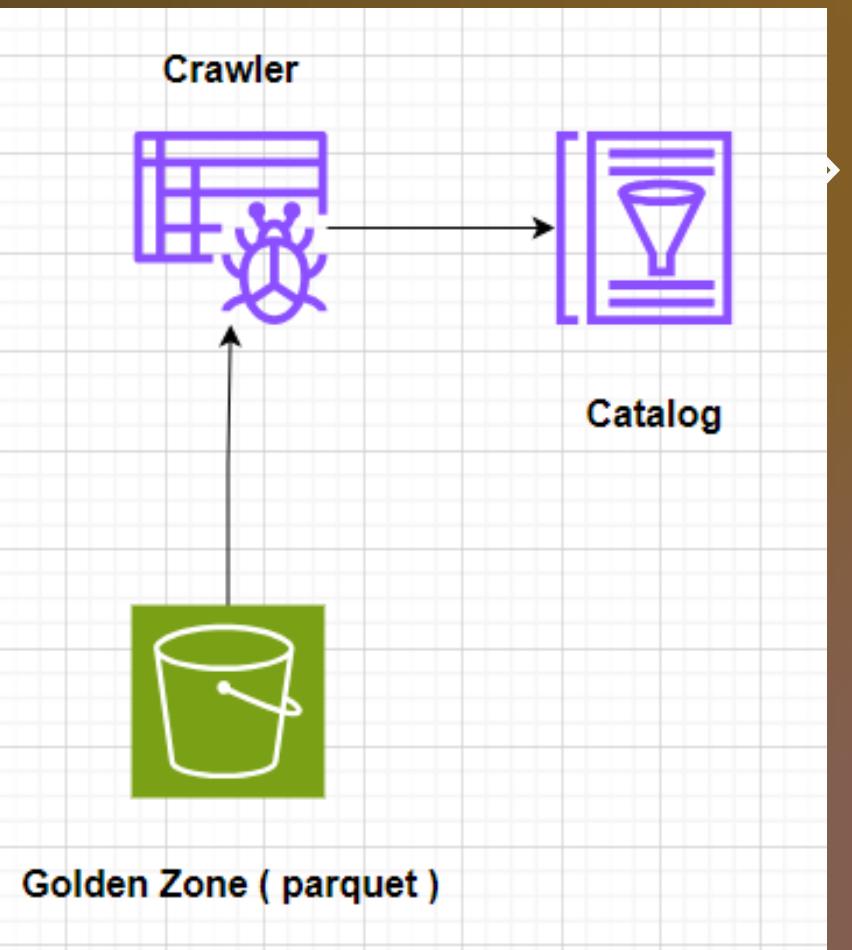
<input type="checkbox"/>	Name	Type
<input type="checkbox"/>	<a href="#">lilwin_card_transaction/</a>	Folder
<input type="checkbox"/>	<a href="#">lilwin_card_type/</a>	Folder
<input type="checkbox"/>	<a href="#">lilwin_card/</a>	Folder
<input type="checkbox"/>	<a href="#">lilwin/</a>	Folder

<input type="checkbox"/>	Name
<input type="checkbox"/>	<a href="#">date_partition=2023-09-21/</a>

# Customer + Customer\_cdc

## SCD Type 2

cust_id	▲	cust_nm	▼	birth_date	▼	add_id	▼	opn_dt	▼	end_dt	▼	effective_to	▼	effective_from	▼	is_active	▼	partition_date
3af616a7...		Aaron Carter Gleichner		1997-11-20		f916c89b...		2010-06-15		2020-06-15		2023-09-21		2023-8-5		0		2023-09-21
3af616a7...		Aaron Carter Gleichner		1997-11-20		f916c89b...		2010-06-15		2023-07-31		9999-12-31		2023-09-21		1		2023-09-21
5094435d...		Aaron DVM Kerluke		1998-10-15		f916c89b...		2021-03-16		2031-03-16		2023-09-21		2023-8-5		0		2023-09-21
5094435d...		Aaron DVM Kerluke		1998-10-15		f916c89b...		2021-03-16		2023-07-31		9999-12-31		2023-09-21		1		2023-09-21
5c54f1fa3...		Aaron Bergstrom Lloyd		1990-05-02		bceb3ac3...		2018-05-08		2023-07-31		9999-12-31		2023-09-21		1		2023-09-21
5c54f1fa3...		Aaron Bergstrom Lloyd		1990-05-02		bceb3ac3...		2018-05-08		2028-05-08		2023-09-21		2023-8-5		0		2023-09-21
6e124c0b...		Aaron Fritsch O'Keefe		1996-09-25		f9721364...		2018-05-28		2028-05-28		2023-09-21		2023-8-5		0		2023-09-21
6e124c0b...		Aaron Fritsch O'Keefe		1996-09-25		f9721364...		2018-05-28		2023-07-31		9999-12-31		2023-09-21		1		2023-09-21
a0db8302...		Aaron Duane Zboncak		1988-05-08		f916c89b...		2014-07-04		2023-07-31		9999-12-31		2023-09-21		1		2023-09-21
a0db8302...		Aaron Duane Zboncak		1988-05-08		f916c89b...		2014-07-04		2024-07-04		2023-09-21		2023-8-5		0		2023-09-21



<input type="checkbox"/>	Name
<input type="checkbox"/>	ai4e-ap-southeast-1-dev-glue-cwl-golden_zone-lilwin
<input type="checkbox"/>	ai4e-ap-southeast-1-dev-glue-cwl-golden_zone-lilwin_card
<input type="checkbox"/>	ai4e-ap-southeast-1-dev-glue-cwl-golden_zone-lilwin_card_transaction
<input type="checkbox"/>	ai4e-ap-southeast-1-dev-glue-cwl-golden_zone-lilwin_card_type

<input type="checkbox"/>	Name	Database
<input type="checkbox"/>	lilwin	golden_zone-lilwin
<input type="checkbox"/>	lilwin_card	golden_zone-lilwin
<input type="checkbox"/>	lilwin_card_transaction	golden_zone-lilwin
<input type="checkbox"/>	lilwin_card_type	golden_zone-lilwin

# Insight Zone

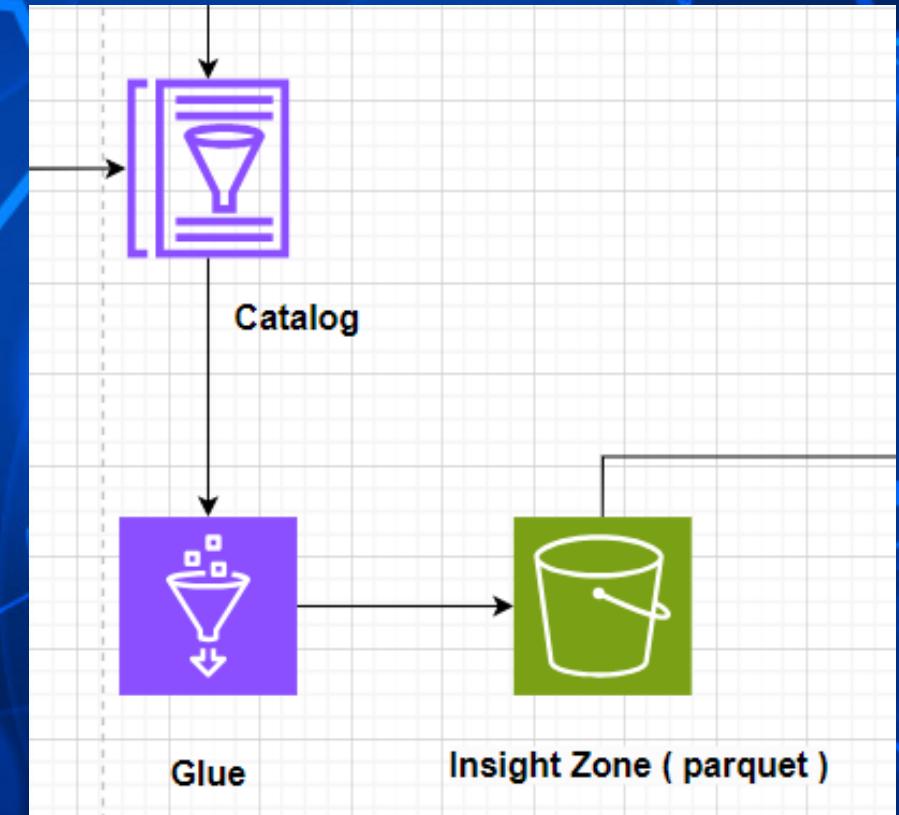
Trả về tổng số tiền đã thu cho từng customer  
theo từng tháng đối với thẻ DEBIT.

Customer

Card

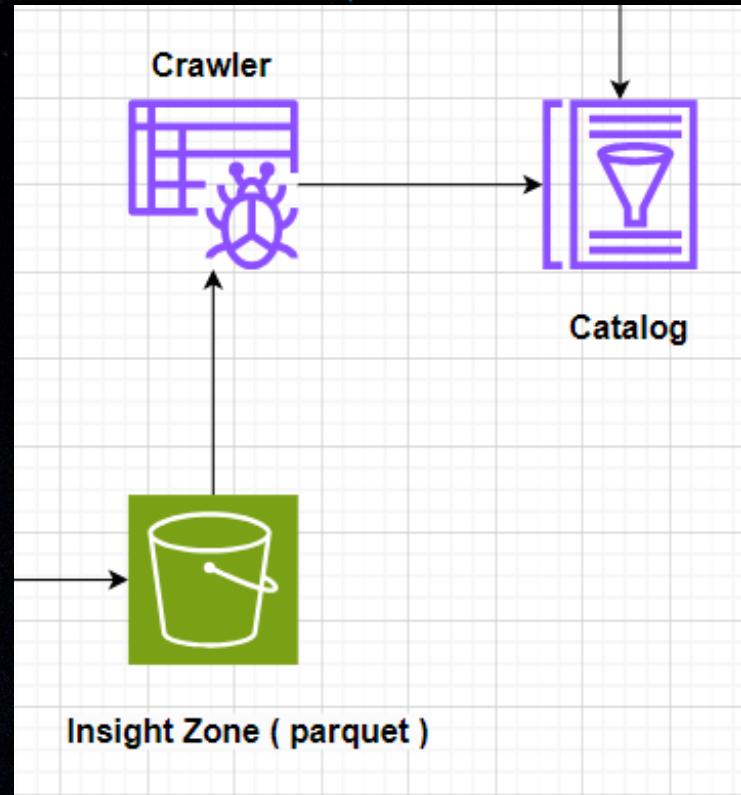
Card_type

Card_trans



# INSIGHT ZONE

<input type="checkbox"/>	Name	Database
<input type="checkbox"/>	lilwin_hw	insight_zone-lilwin



card_id	cust_id	cust_nm	card_type	description	amount	trans_month	trans_year	is_active	partition_date
1c7ee0a7...	5c54f1fa3...	Aaron Ber...	1	DEBIT card	697	1	2023	1	2023-09-21
1c7ee0a7...	5c54f1fa3...	Aaron Ber...	1	DEBIT card	409	1	2024	1	2023-09-21
1c7ee0a7...	5c54f1fa3...	Aaron Ber...	1	DEBIT card	601	1	2024	1	2023-09-21
1c7ee0a7...	5c54f1fa3...	Aaron Ber...	1	DEBIT card	4	1	2025	1	2023-09-21
1c7ee0a7...	5c54f1fa3...	Aaron Ber...	1	DEBIT card	509	2	2023	1	2023-09-21
1c7ee0a7...	5c54f1fa3...	Aaron Ber...	1	DEBIT card	935	2	2023	1	2023-09-21
1c7ee0a7...	5c54f1fa3...	Aaron Ber...	1	DEBIT card	410	2	2023	1	2023-09-21
1c7ee0a7...	5c54f1fa3...	Aaron Ber...	1	DEBIT card	939	2	2024	1	2023-09-21
1c7ee0a7...	5c54f1fa3...	Aaron Ber...	1	DEBIT card	196	3	2022	1	2023-09-21
1c7ee0a7...	5c54f1fa3...	Aaron Ber...	1	DEBIT card	987	3	2022	1	2023-09-21

# Auto Flow

ai4e-ap-southeast-1-dev-glue-jb-r2g\_lilwin\_card

Last modified on 11:32:47 21/9/2023

Actions ▾

Save

Run

Script Job details Runs Data quality New Schedules Version Control

## Schedules

r2g\_card X

1 match



Actions ▾

Create schedule

< 1 >

r2g\_card

Description

-

Schedule

At 12:30 AM

Cron Expression

30 0 \* \* ? \*

Status

Activated

<input type="checkbox"/>	Name	State	Schedule
<input type="checkbox"/>	ai4e-ap-southeast-1-dev-glue-cwl-golden_zone-lilwin	<span>✓ Ready</span>	At 12:59 AM
<input type="checkbox"/>	ai4e-ap-southeast-1-dev-glue-cwl-golden_zone-lilwin_card	<span>✓ Ready</span>	At 12:59 AM
<input type="checkbox"/>	ai4e-ap-southeast-1-dev-glue-cwl-golden_zone-lilwin_card_transaction	<span>✓ Ready</span>	At 12:59 AM
<input type="checkbox"/>	ai4e-ap-southeast-1-dev-glue-cwl-golden_zone-lilwin_card_type	<span>✓ Ready</span>	At 12:59 AM

## Workflows (1)

A workflow is an orchestration used to

Last updated (UTC)

September 21, 2023 at 04:35:30

Filter workflows

<input type="checkbox"/>	Name	Last run
<input type="checkbox"/>	flow	Thu, 21 Sep 2023

### Trigger details

Name	s2r-copy
Description	-
Trigger type	SCHEDULED
Trigger state	ACTIVATED
Schedule	At 12:00 AM
Starts	ai4e-ap-southeast-1-dev-glue-jb-s2r_lilwin

