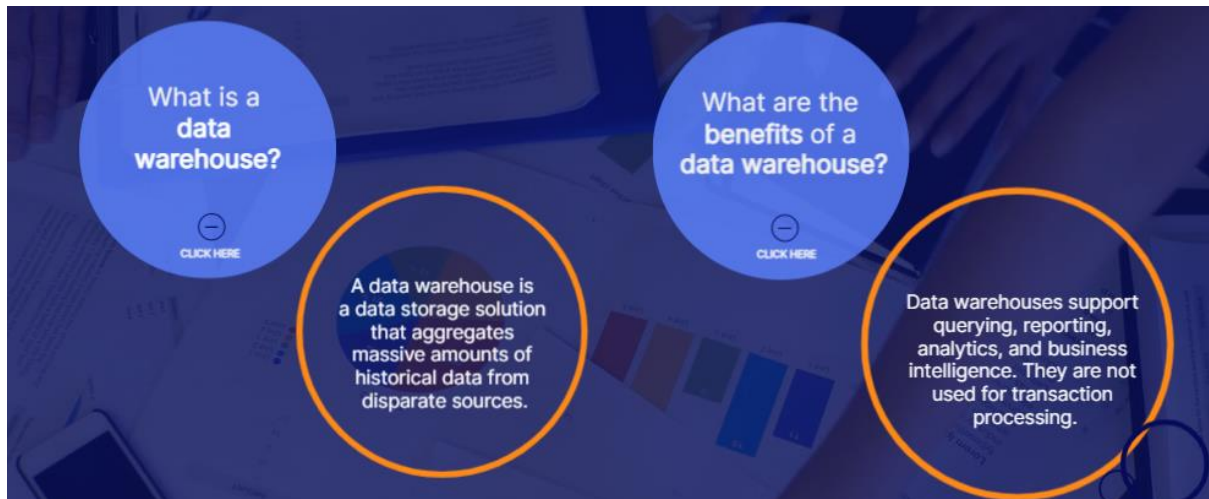


Analytical Services:



Amazon Redshift

Redshift is a scalable data warehouse solution.

Data warehousing solution

Improves speed and efficiency



Handles exabyte-scale data

Redshift in the Real World

Let's discuss when you would use Redshift in the real world.

 **1 Data consolidation**

When you need to consolidate multiple data sources for reporting

 **2 Relational databases**

When you want to run a database that doesn't require real-time transaction processing (insert, update, and delete)

Athena

Athena is a query service for Amazon S3.



Glue

Glue prepares your data for analytics.



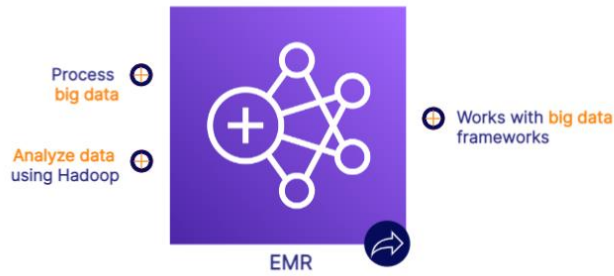
Kinesis

Kinesis allows you to analyze data and video streams in real time.



Elastic MapReduce (EMR)

EMR helps you process large amounts of data.



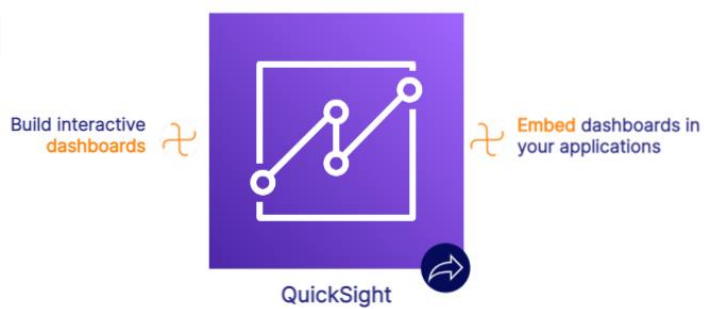
Data Pipeline

Data Pipeline helps you move data between compute and storage services running either on AWS or on-premises.



QuickSight

QuickSight helps you visualize your data.



Analytics in the Real World

Let's discuss when you would use **analytics** services in the real world.



Things to Remember When Studying for the Exam



Athena

Going into the exam, don't forget Athena is used to query S3.



Redshift

Going into the exam, don't forget the real-world use cases of Redshift.

Machine Learning Services:

- Artificial intelligence (AI) teaches computers to do things that normally require human intelligence.

Rekognition allows you to automate your image and video analysis.



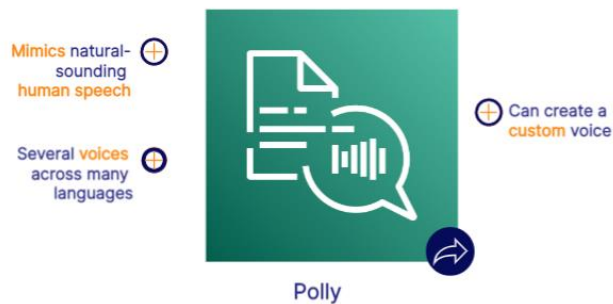
Comprehend

Comprehend is a natural-language processing (NLP) service that finds relationships in text.



Polly

Polly turns text into speech.



SageMaker

SageMaker helps you build, train, and deploy machine learning models quickly.



Translate

Translate provides language translation.

Provides **real-time** and batch language **translation**

Supports many **languages**

Translates many content formats



Translate

Lex

Lex helps you build conversational interfaces like chatbots.

Recognizes **speech** and understands **language**

Build highly engaging **chatbots**

Powers Amazon **Alexa**



Lex

Things to Remember When Studying for the Exam



Comprehend

Don't forget Comprehend is used for natural language processing (NLP).



Rekognition

Don't forget Rekognition processes videos and images.