

Final Exam

Due No due date **Points** 100 **Questions** 38**Available** Aug 6 at 12:01pm - Aug 6 at 2pm about 2 hours**Time Limit** 60 Minutes

Attempt History

	Attempt	Time	Score
LATEST	<u>Attempt 1</u>	60 minutes	95 out of 100

Score for this quiz: **95** out of 100

Submitted Aug 6 at 1:37pm

This attempt took 60 minutes.

Question 1

3 / 3 pts

In which of the following processes would you use product specific components:

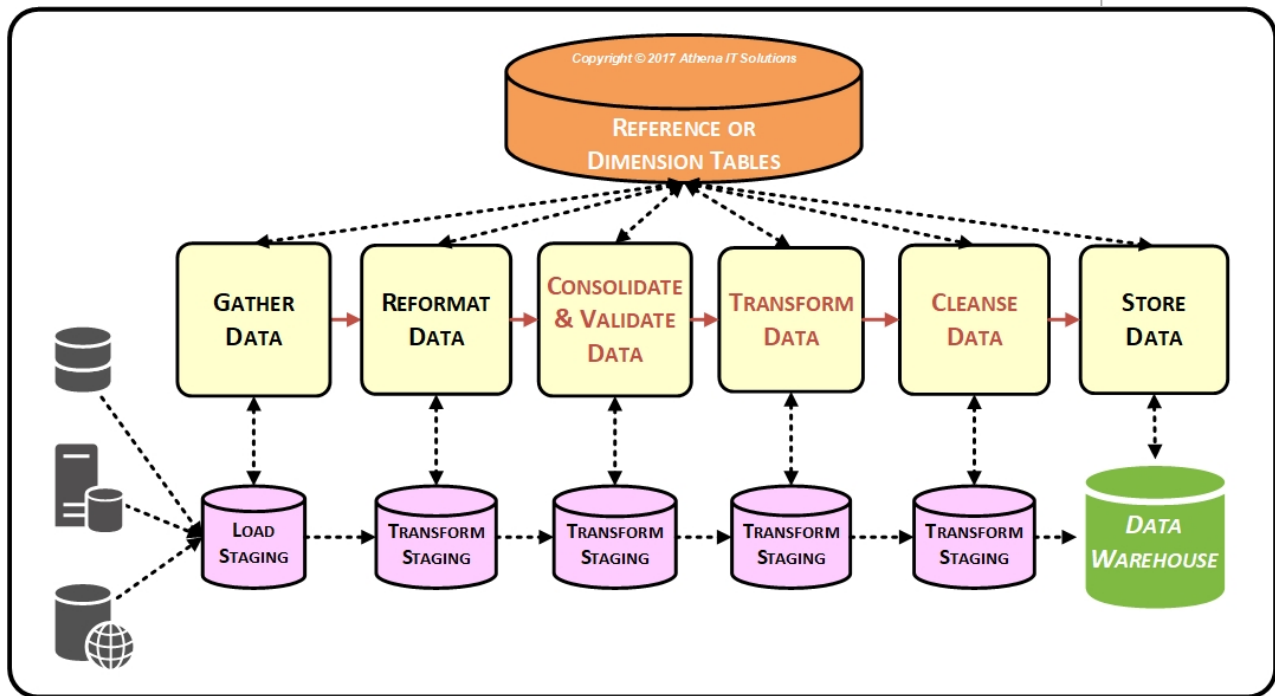
- ☐ Design overall data integration workflow
- ☐ Design stage-related source-to-target mappings
- ☐ Create stage-related logical data integration process model
- ☐ Create stage-related conceptual data integration process model
- ☒ Design stage-related physical data integration process model

Correct!

Question 2

3 / 3 pts

What component of the Data Integration Framework (DIF) has as its purpose of getting data from source systems and storing it in a DW



- ☐ data franchising
- ☐ BI and analytics
- ☐ data management
- ☒ data preparation
- ☐ metadata management

Correct!

Question 3

0 / 3 pts

What would be the data type to use for a surrogate key according to best practice?

- ☐ datetime

Correct!
You Answered

☐ uniqueidentifier (UUID)

☒ integer

☒ decimal

☐ nvarchar

☐ bit

☐ numeric

Question 4

3 / 3 pts

Match the type of testing with its description

Correct!

Unit testing

Test each data integrator ▼

Correct!

Integration testing

Test a workflow with its ir ▼

Correct!

User acceptance testing

Business people validate ▼

Correct!

**System testing and
performance testing**

Test the entire data integ ▼

Question 5

3 / 3 pts

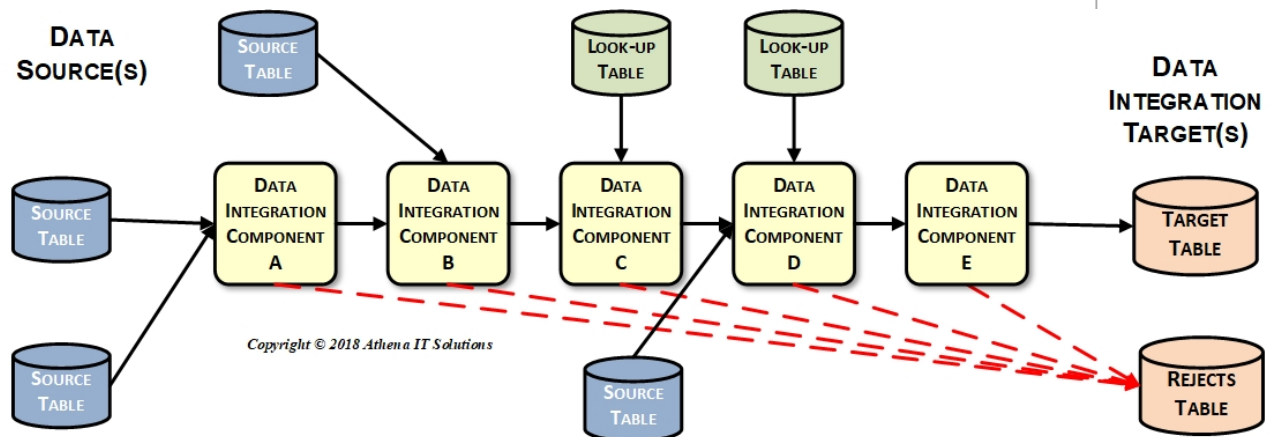
Wat is the source system's primary keys referred to in the ADA?

Correct!

- ☒ natural key (nk)
- ☐ foreign key (fk)
- ☐ durable key (dk)
- ☐ surrogate key (sk)

Question 6**3 / 3 pts**

Does the following model depicts a physical or logical data integration model:

**Correct!**

- ☒ physical data integration
- ☐ logical data integration

Question 7**3 / 3 pts**

Which of the following are not a data integration business. data & analytical requirement?

Correct!

- ☒ Extraction strategy for each source system
- ☐ Tracking changes to data
- ☐ Data latency
- ☐ Historical & archiving requirements
- ☐ Regulatory compliance
- ☐ Data hub for exchanging data between applications

Question 8**3 / 3 pts**

What is an example of an audit key for the ADA?

- ☐ natural key (nk)
- ☐ surrogate key (sk)
- ☐ current indicator
- ☐ scd effective date
- ☒ data integration process id

Correct!**Question 9****3 / 3 pts**

When designing an analytical data architecture what is the first data store to be modeled?

- ☐ Distribution schema

Correct!

- ☐ Data Lake
- ☒ Enterprise data Warehouse (EDW)
- ☐ Data Lake
- ☐ BI schemas
- ☐ Operational data Stores (ODS)
- ☐ Staging

Question 10**3 / 3 pts**

Performing source systems analysis is required to design data integration processes. Which of the following is a source system analysis task?

Correct!

- ☒ Perform data profiling
- ☐ Design BI dashboards
- ☐ Design data warehouse data model
- ☐ Perform data cleansing
- ☐ Create source-to-target mappings

Question 11**3 / 3 pts**

What is not a business integration processes

- ☐ Conform

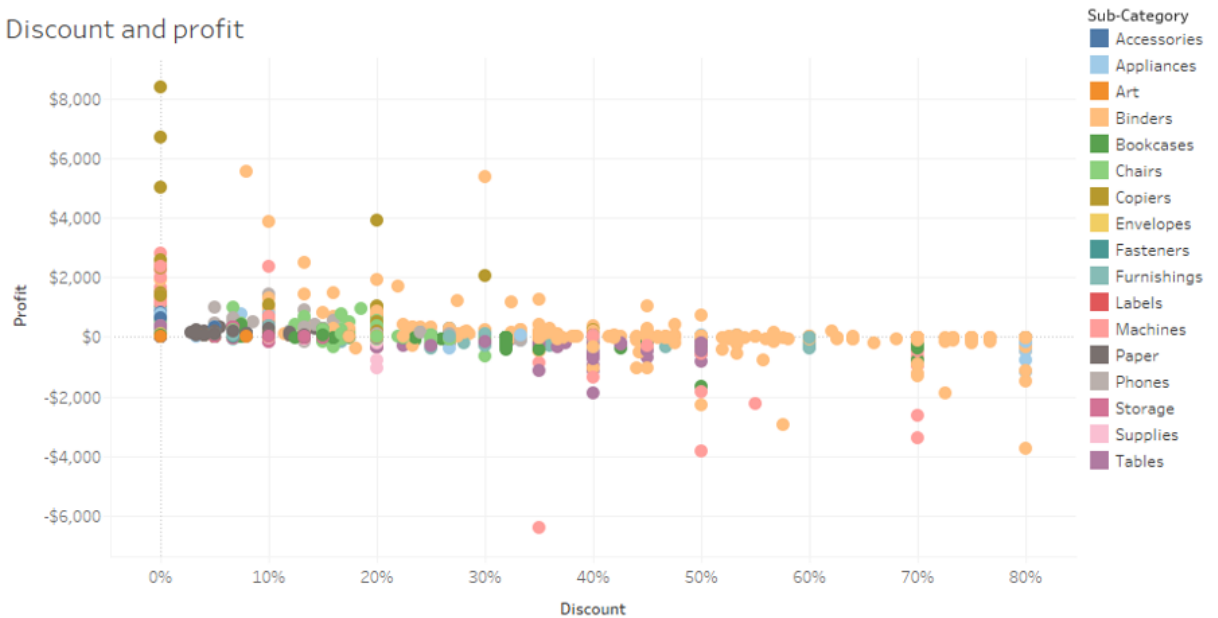
Correct!☐ Transform☒ Prepare data stores☐ Consolidate☐ Cleanse**Question 12****3 / 3 pts**

Is loading historical data is similar to data migration projects as they both need to be repeatable, auditable and documented.

Correct!☒ True☐ False**Question 13****2 / 2 pts**

Why would this be a poorly designed visualization?

Discount and profit

**Correct!**

- ☐ x & y axis need to be switched
- ☐ Chart time incorrect for comparison
- ☒ Too many colors
- ☐ Too many labels

Question 14**2 / 2 pts**

which of the following data visualizations would be least likely to be used for comparison?

Correct!

- ☒ histogram
- ☐ circular area chart
- ☐ bar chart vertical
- ☐ line chart

☐ bar chart horizontal

☐ variable width chart

Question 15

2 / 2 pts

You can make the BI presentation model more relevant by: (2 answers)

☐ Making sure that arrows are always red

☒ Using business terminology

☐ Using the sans serif font

☐ Using lots of color

☒ Eliminating clutter

Correct!

Correct!

Question 16

2 / 2 pts

The most important data on the dashboard should be placed what location on a dashboard or report?

☒ In the upper left-hand corner

☐ In the absolute center of the screen

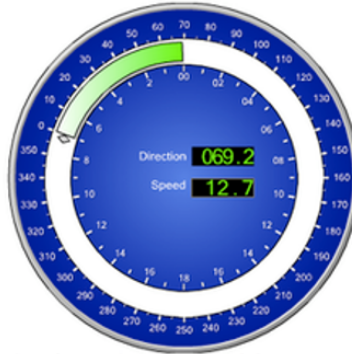
☐ Anywhere as long as the typeface is bold

☐ The right-hand quadrant

Correct!

Question 17**2 / 2 pts**

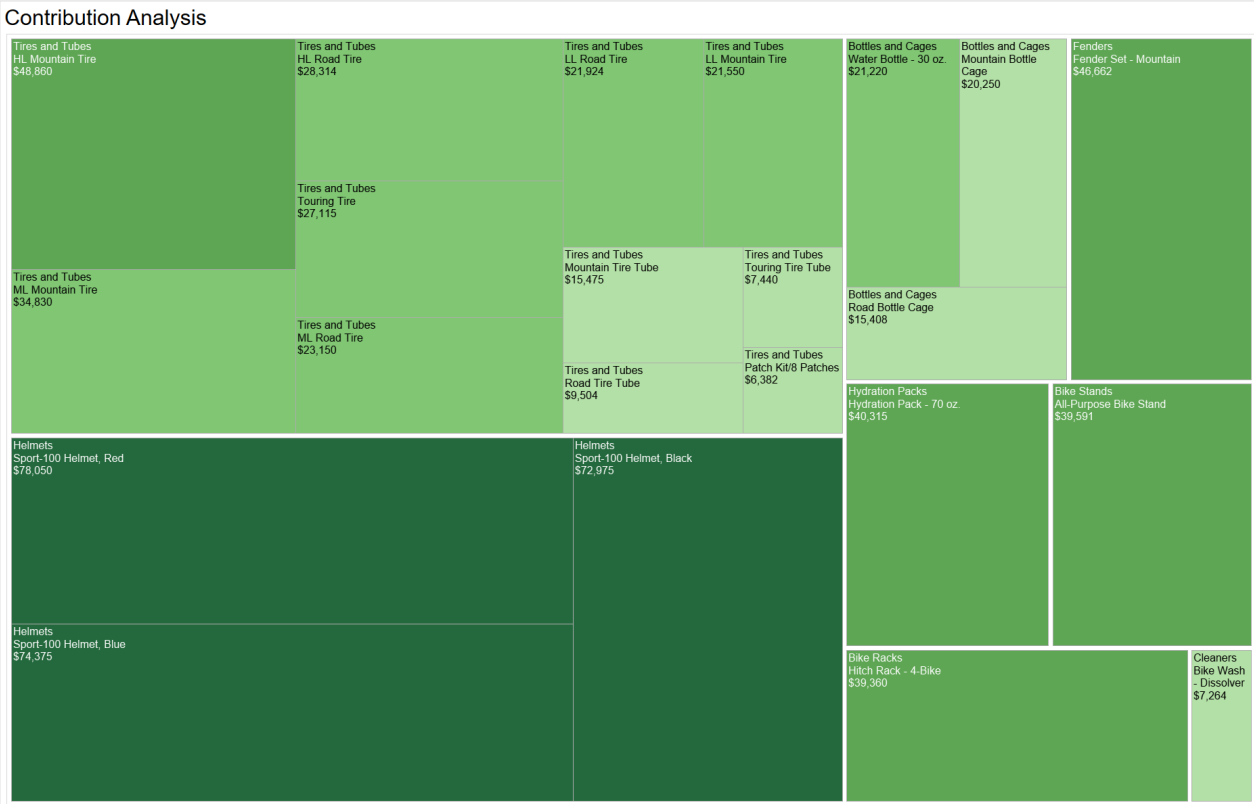
Which one of the following is not true?



- ☐ Are glitzy but unhelpful
- ☐ Hard to read and understand
- ☐ Provide little actionable information
- ☐ Require a disproportionate amount of room for the information presented
- ☒ Are very effective at displaying KPIs (Key Performance Indicators)

Correct!**Question 18****2 / 2 pts**

What type of visualization is this?

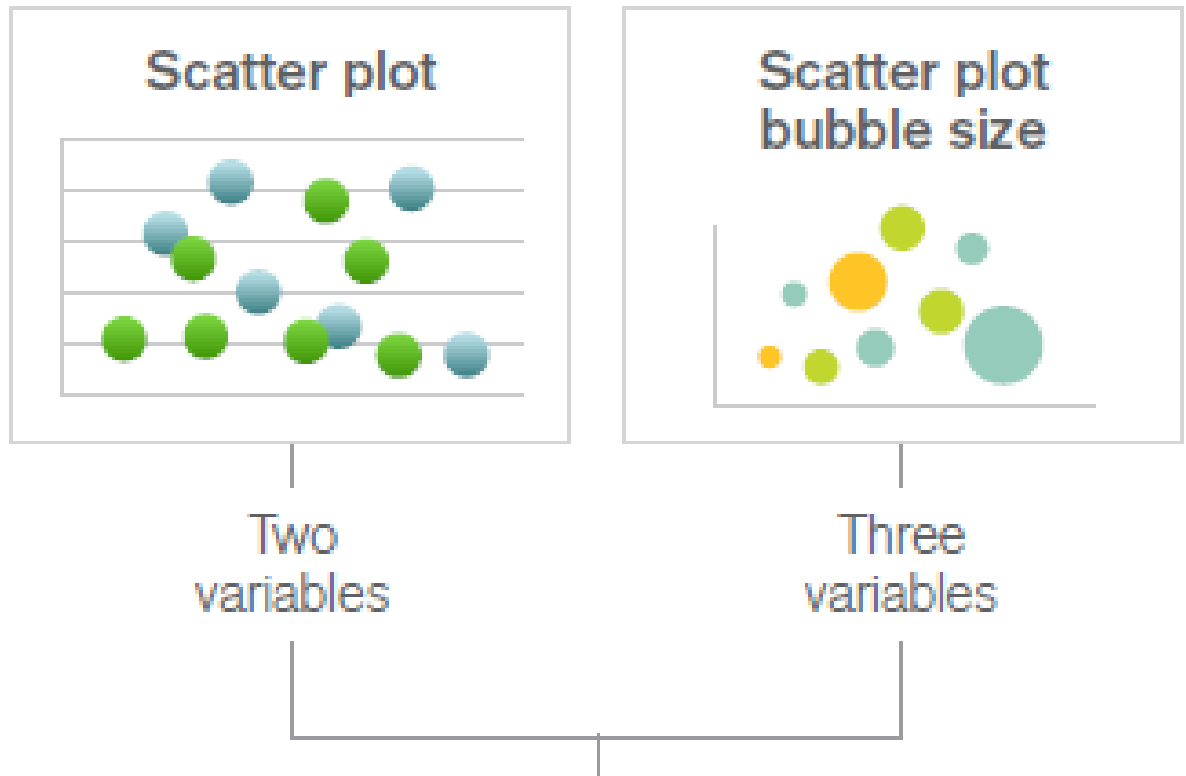


Correct!

- ☒ Treemap
- ☐ Histogram
- ☐ Bar Chart
- ☐ Distribution
- ☐ Gauges
- ☐ Box plot

Question 192 / 2 pts

What type of data visualization category are these visualizations?

**Correct!**

- ☐ Composition
- ☐ Tabular
- ☒ Relationship
- ☐ Distribution
- ☐ Comparisons

Question 20**2 / 2 pts**

Please match the descriptions of BI Visual Design Methods

Correct!**Wireframe**

Technique that is used ex: ▼

Correct!**Sketch**

Technique that often uses: ▼

Correct!**Storyboarding**

Focus on the business use ▼

Correct!**Mock-up**

This technique creates a s ▼

Question 21**2 / 2 pts**

Match the best practice data visualizations for the following types of analysis:

Correct!**Comparative**

Bar charts ▼

Correct!**Time-series**

Line charts ▼

Correct!**Contribution**

Heat map ▼

Correct!**Correlation**

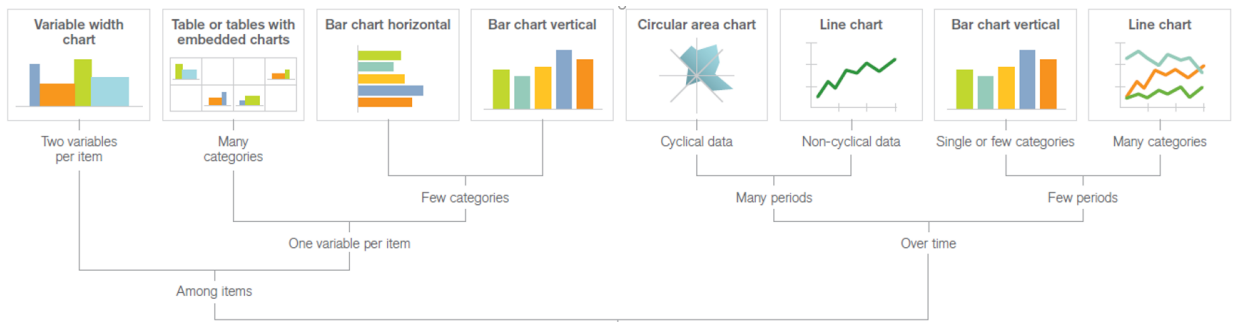
Scatter plot ▼

Correct!**Distribution**

Box plot ▼

Question 22**2 / 2 pts**

What data visualization category are these visualizations?



- ☐ Distribution
- ☐ Relationship
- ☐ Composition
- ☒ Comparisons

Correct!

Question 23**2 / 2 pts**

What BI persona would typically have the skills to perform predictive analytics?

- ☒ Data scientist
- ☐ Power users
- ☐ Analysts
- ☐ Casual consumers

Correct!

Question 24**0 / 2 pts**

What would be the preferred data visualization to compare more than two variables

Correct Answer

☐ histogram

☐ tree map

You Answered

☒ bar chart

☐ circular area chart

Question 25

2 / 2 pts

The convention for the trending charts is for time to be displayed _____-axis while the measure is displayed on the _____-axis

☐ y,x

Correct!

☒ x,y

Question 26

2 / 2 pts

Why should you consider avoiding red & green as your default colors in a visualization?

Correct!

☒ 8% or men are color blind

☐ Blue & orange are prettier colors

☐ Red generally means negative & green implies positive numbers

Question 27**3 / 3 pts**

Which of the following is not a part of data ingestion services

Correct!

- ☒ Custom Data Loaders
- ☐ Reference look-ups
- ☐ Change data Capture (CDC)
- ☐ Slowly Changing Dimensions (SCD)

Question 28**3 / 3 pts**

Why do IT groups choose to manually code data integration processes:
(select 2 choices)

Correct!☒ Expertise is scarce**Correct!**☒ Tools are too expensive☐ Ensures documentation of processes☐ Enables impact analysis**Question 29****3 / 3 pts**

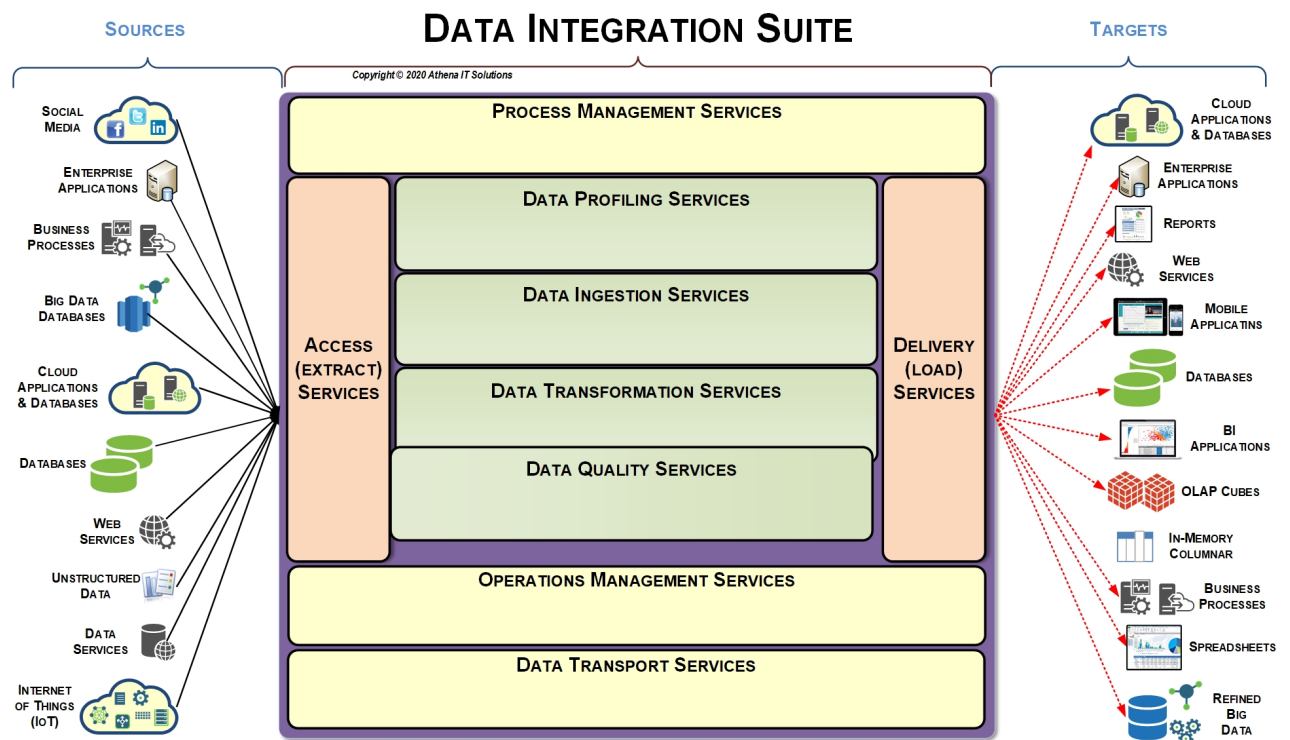
Which among the below belong to data transformation services?

Correct!

- ☐ Change Data Capture (CDC)
- ☒ data conversion services
- ☐ Source system analysis
- ☐ Source to target mapping

Question 30**3 / 3 pts**

What data integration service's purpose is to update the targets with the latest data based on business rules for tracking data as it is created and modified:



- ☐ Data profiling

Correct!

- ☐ Access & Delivery
- ☒ Data ingestion
- ☐ Data quality
- ☐ Process management
- ☐ Operations management
- ☐ Data transformation
- ☐ Data transport

Question 31**3 / 3 pts**

what is an example of a data structure transformation service?

Correct!

- ☐ data profiling services
- ☒ EDW integration schema services
- ☐ data quality services
- ☐ Operations Management Services

Question 32**3 / 3 pts**

Which of the following is not a part of audit service?

Correct!

☐ Data integration jobs

☐ Data quality metrics

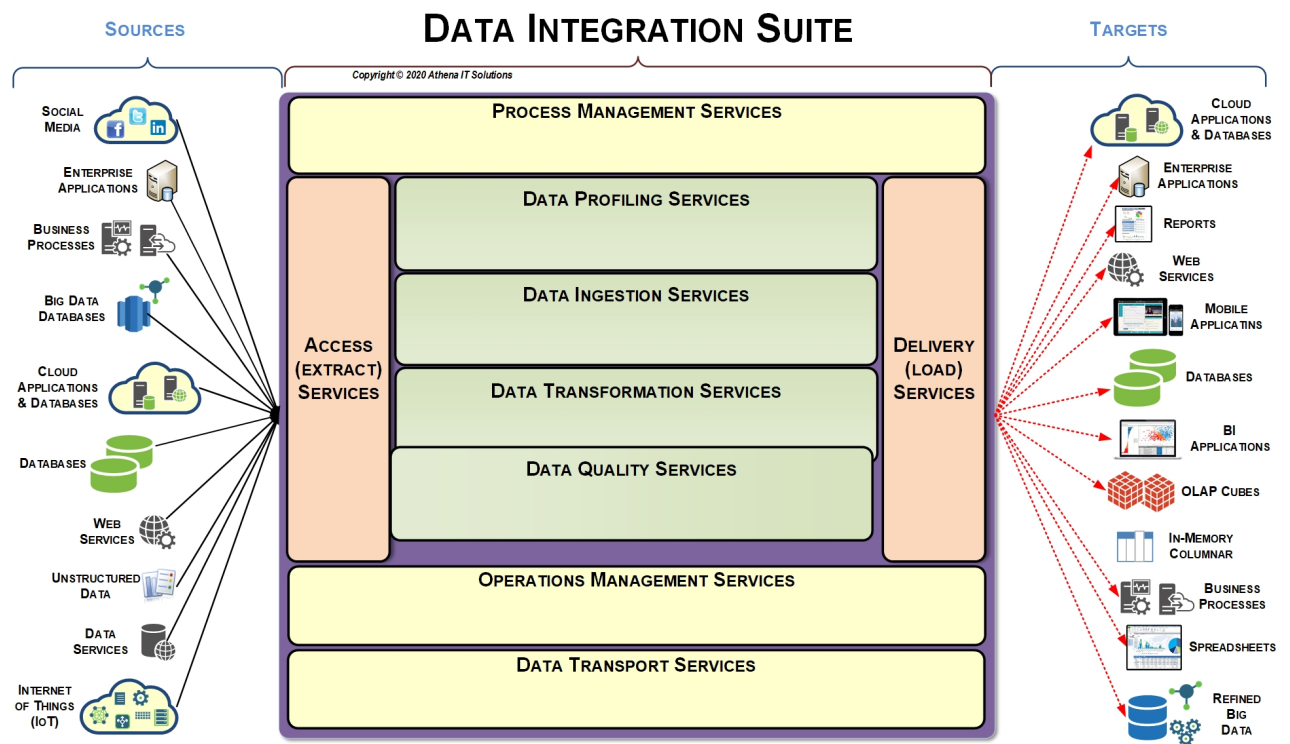
☒ Error handling

☐ Table and row update

Question 33

3 / 3 pts

What data integration service's purpose is to monitor and manage the design, development and running of data integration services:


☐ Process management

☒ Operations management

☐ Data transformation

Correct!

☐ Access & Delivery☐ Data ingestion☐ Data quality☐ Data profiling☐ Data transport**Question 34****3 / 3 pts**

What Data Transformation Sub-Services is used to create a mini-dimension:

☐ Aggregation subservice☐☒ Fact table subservice☐☐ Data conversion☐ Dimension table subservice☐**Correct!****Question 35****3 / 3 pts**

Data profiling is also called?

☐ predictive modeling☐ data modeling

Correct!

- ☐ reverse engineering
- ☒ source system analysis
- ☐ data engineering

Question 36**3 / 3 pts**

Match the type of source systems analysis with its result

Correct!**column analysis**

count of distinct values & ▼

Correct!**primary key analysis**

identify candidate keys ▼

Correct!**relationship analysis**

identify FKs ▼

Correct!**cross-table analysis**

detect common column d ▼

Question 37**3 / 3 pts**

What CDC technique records the current snapshot and compares it to the previous snapshot to determine all the changes that occurred in the data source since the last CDC run?

- ☐ Message queue monitoring
- ☐ Timed extracts
- ☒ Full table comparisons

Correct!

- ☐ Audit columns
- ☐ Database log scraping or sniffing

Question 38**3 / 3 pts**

What service provides, monitoring, reporting and analytical functionality on management service including the ability to send alerts based on development or processing events

Correct!

- ☒ Operations reporting
- ☐ Data Profiling
- ☐ Software management service
- ☐ Repository management

Quiz Score: 95 out of 100