### Midterm P1

**Due** Jul 2 at 3pm **Points** 100 **Questions** 50

Available Jul 2 at 12:01pm - Jul 2 at 3pm about 3 hours Time Limit 60 Minutes

### **Attempt History**

	Attempt	Time	Score
LATEST	Attempt 1	60 minutes	67.5 out of 100

### (!) Correct answers are hidden.

Score for this quiz: 67.5 out of 100

Submitted Jul 2 at 1:11pm
This attempt took 60 minutes.

### Question 1 2 / 2 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?

row difference comparisons

### Question 2 What data integration service's purpose is the command and control center for the data integration jobs: Access & Delivery

Data profiling
Data ingestion
Data transformation
Data quality
Process management
Operations management
Data transport

Question 3	2 / 2 pts
What data integration service is a process to examine the structure and content of sources:	f data
Access & Delivery	
Data profiling	
Data ingestion	
Data transformation	
O Data quality	
Process management	

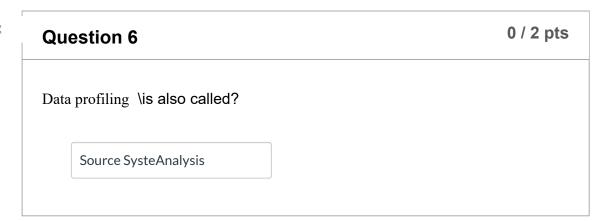
Operations management
Data transport

Question 4	0 / 2 pts
Why do IT groups choose to manually code data integration proce	sses:
Tools are too expensive	
Expertise is scarce	
Enables impact analysis	
Ensures documentation of processes	

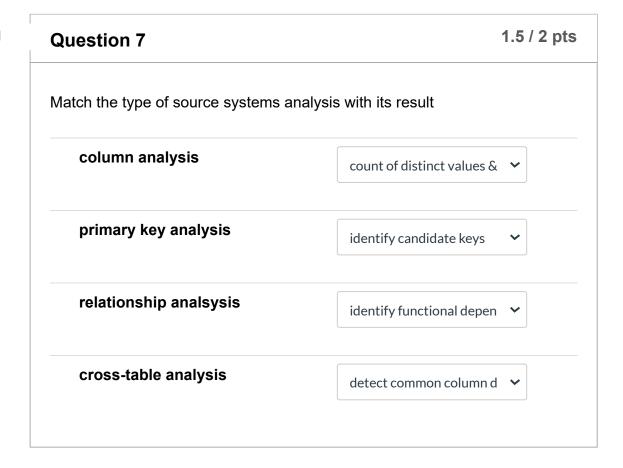
Question 5	2 / 2 pts
Which among the below belong to data transformation services?	
data conversion services	
Source system analysis	
<ul> <li>Source to target mapping</li> </ul>	

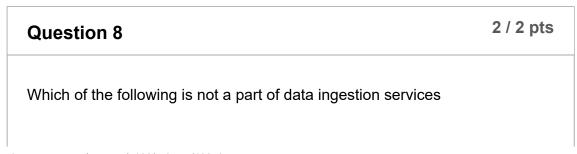
Change Data Capture (CDC)

### Incorrect



### **Partial**





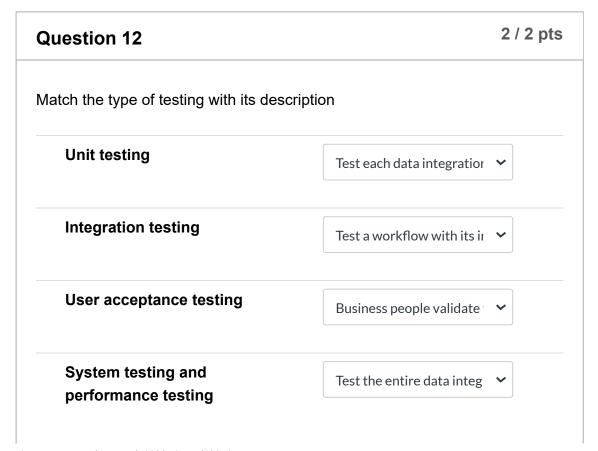
<ul><li>Custom Data Loaders</li></ul>	
Change data Capture (CDC)	
Slowly Changing Dimensions (SCI)	0)
Reference look-ups	

# Which of the following is not a part of audit service? © Error handling Data integration jobs Data quality metrics Table and row update

## What data quality service's purpose is to involves making sure there are standard measures on fact tables when there are multiple variations of that measure: Data consistency

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Data conformance
Data cleansing
Data profiling
Data governance

### Question 11 0 / 2 pts The purpose of data [a] is to "package" the data to make it easier for business users to understand and use. Data Model



Question 13	2 / 2 pts
When designing an analytical data architecture what is the first dabe modeled?	ita store to
EDW	
Staging	
ODS	
O BI schemas	
O Data Lake	
Distribution schema	

Question 14	2 / 2 pts
Which of the following are not a data integration business. data & requirement?	analytical
Extraction strategy for each source system	
Historical & archiving requirements	
O Data latency	
Tracking changes to data	
Regulatory compliance	
Data hub for exchanging data between applications	

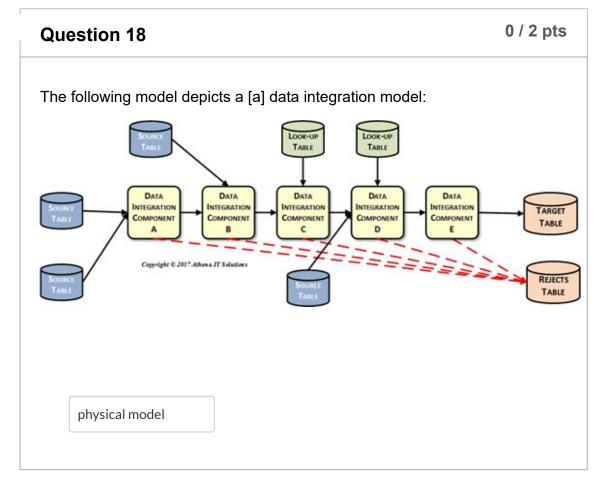
Question 15	2 / 2 pts
Which of the following DI workflows are data preparation processe	es?
ODS to Integration Schema	
SOR to ODS	
✓ Staging to MDM	
Staging to Integration Schema	
MDM to Integration Schema	
MDM to Distribution Schema	
☐ BI Schema to BI Tool-Specific Data	
Distribution Schema to BI Schema	
Distribution Schema to Applications	
☐ Integration Schema to Distribution Schema	

Question 16	2 / 2 pts
In which of the following processes would you use product specific components:	2
Design stage-related physical data integration process model	
Create stage-related conceptual data integration process model	
Create stage-related logical data integration process model	

- Design stage-related source-to-target mappings
- Design overall data integration workflow

### Question 17 Data [a] is the process of getting data from source systems and storing it in a DW preparation

### Incorrect



Question 19 2 / 2 pts

Business people & SMEs of what type of testing.	validating the data by using BI applications is part
<ul><li>User acceptance tes</li></ul>	ting
<ul> <li>Integration testing</li> </ul>	
O Unit testing	
System & performan	ce testing
<ul> <li>Regression testing</li> </ul>	
Midterm exam	

# Which one of the following is not a data sourcing system requirement? Privacy and security requirements Source system availability Staging area strategy Relational database design standards

Question 21 2 / 2 pts

What type of attributes does a primary (vs profile or mini-) dimension contain?

Slowly changing dimensions
Rapidly changing dimensions
Degenerate dimensions
Junk dimensions

# what are approaches to handle multi-valued dimensions Pick one value, ignore others Extend the attributes Create a bridge table Create a mini-dimension Use a value-band Create a ragged hierarchy

### Incorrect

### Question 23 0 / 2 pts

What type of dimension is used to handle a multitude of low-cardinality transactions, system codes, flags, identifiers, and text attributes.

**Junk Dimensions** 

## Question 24 This is an example of a financial Chart of Accounts (COA). Based solely on what is depicted in this example what type of hierarchy is it? Unbalanced

Question 25	2 / 2 pts
What type of attributes does a profile dimension contain?	
Slowly changing dimensions	
<ul> <li>Rapidly changing dimensions</li> </ul>	
O Degenerate dimensions	
<ul> <li>Junk dimensions</li> </ul>	

Question 26	2 / 2 pts
Which of the following types of hierarchies belong to dimensional model?	
Roll up, drill down, drill across	
Balanced, ragged, unbalanced	
Star, snowflake, multidimensional	

All of the above

Question 27	2 / 2 pts
In what type of specialty dimension is a weighing factor used for a	nalysis?
Bridge tables supporting multi-value relationships	
Bridge tables replacing recursive relationships	
Bridge tables connecting primary & profile dimensions	
Value-Band Dimensions	

Incorrect

Question 28

O / 2 pts

In the example, what special types of dimension are the DimPromotion & DimSalesReason tables?

Casual Dimension

Question 29

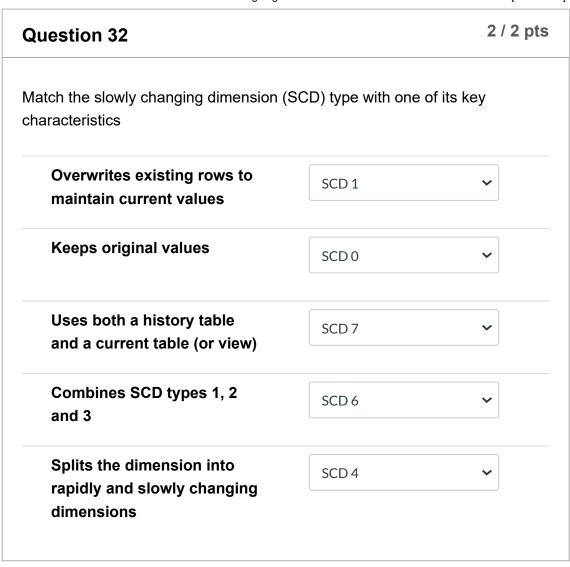
What type of dimension references another dimension?

Outrigger tables

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Bridge table
Recursive pointers
Casual dimension

	pts
What type of specialty dimension table, in this example Account-to- CustomerTable, to support many-to-many relationships in dimensional modeling?	

Question 31	2 / 2 pts
What are valid approached to handling the missing value in a rage hierarchy	ged
default value	
use value level above the gap	
create a bridge table	
use recursion	
create a mini-dimension	



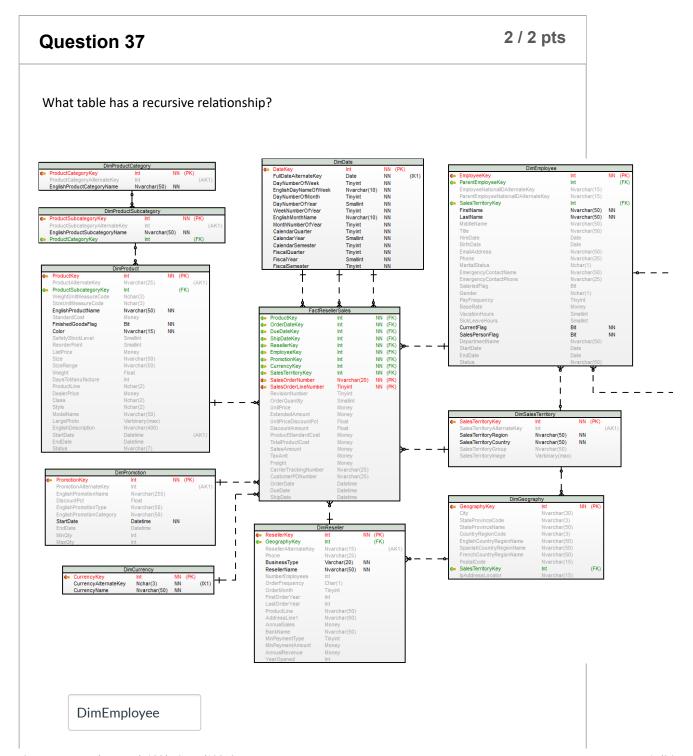
Question 33	2 / 2 pts
What is the date pair used to support SCD Type 3?	
Current & Historical Dates	
Effective & Ineffective Dates	
Created & Modified Dates	
Start & End Date	

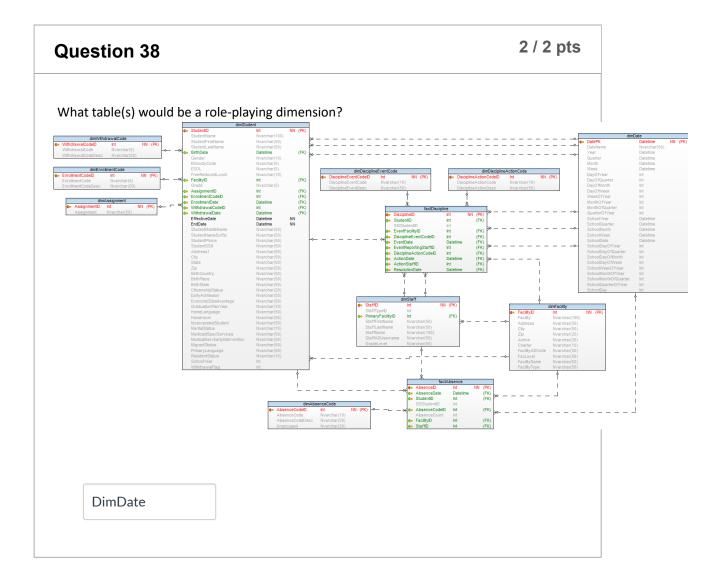
Qu	estion 34		0 / 2 pts
	•	a financial Chart of Accoun	,
	Unbalanced		

# What term is used because key values assigned to a SCD dimension continue to be used regardless of any changes in the values in the systems? Durable Supernatural Degenerate Natural Key

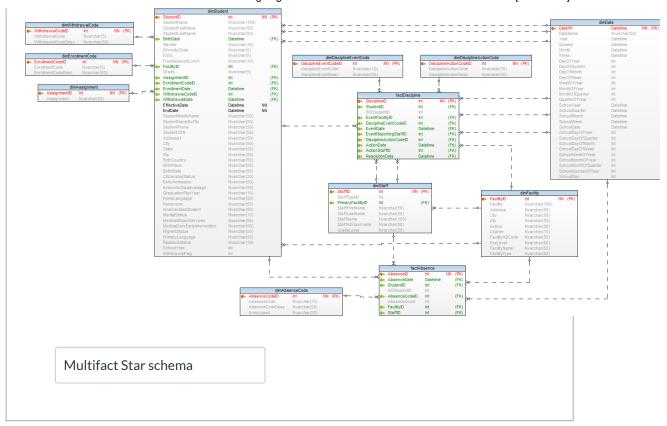
Question 36	2 / 2 pts
If time is not considered relevent to expected business aalysis, the two columns should be in the fact table containing these dates:	en what
Foreign key linked to calendar dimension	







## What type of schema is depicted in schema?



Question 40	2 / 2 pts
What is not a required characteristic of a dimensional attribute?	
Not Null	
Descriptive	
Complete	
Unique	
○ Valid	

Question 41 0 / 2 pts

There are instances when a fact table references a dimension multiple times as a foreign key. For example, multiple address-related columns identifying different address such as shipping and billing locations. What term describes a physical dimension being used in different business contexts?

**Role Playing Dimensions** 

### Incorrect

Question 42	0 / 2 pts
Are surrogate Keys required for all tables in a DW?	
True	
○ False	

### Incorrect

### Question 43 0 / 2 pts

What type of schema is depicted in schema?



## What statement about a dimensional hierarchy is false: Always Constant Used to aggregate data An attribute Always Unique

Always Descriptive

Incorrect

Question 45 0 / 2 pts

Operational systems track transactions and business events by using business process documents such as a purchase order, invoice, travel reservation or concert ticket. All of these process documents have reference identifiers such as order, invoice and reservation numbers that are unique and used as primary keys to entities in their supporting operational schemas. This type of dimension is referred to as?

Degenerative Dimensions

Question 46	2 / 2 pts			
which normal form do you Eliminate repeating groups				
1NF				

Question 47	0 / 2 pts
which normal form do you Eliminate redundant data stored in different	entities
3NF	

Question		0 / 2 pts
wheih normal form do you Eliminate non-key interdependencies		
2NE		
2NF		

Question 49	2 / 2 pts
Dependent entities are child records that need a parent record to are considered strong links?	exist and
○ True	
False	

Question 50	2 / 2 pts
Which of the following is not the purpose of data modeling?	
To guide how the data is collected, integrated, enhanced, stored, and delivered to business people who use it to do their jobs	
To build business intelligence (BI) and data warehousing (DW) applithat provides significant business value.	ications
To transform data into an enterprise information asset that is consist comprehensive, and current.	tent,

To transform data from operational or source systems into a data warehouse, data marts, or online analytical processing (OLAP) cubes for analysis.

Quiz Score: **67.5** out of 100