CDMP Exam 1

Total points 99/100

✓ A data lineage tool enables a user to? *   1/1

○ Track the data from the source system to a target database, understanding its   ✓
   transformations

○ Enables rapid development of dashboard reporting

○ Visualize how the data gets to the data lake

○ Track the historical changes to a data value

○ Line up the data to support sophisticated glossary management

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
A data lineage tool enables a user to: Track the data from the source system to a target
database, understanding its transformations.

✓ If two data stores are able to be inconsistent during normal operations,   *1/1
   then the integration approach is:

○ Uncontrolled

○ Streaming

● Asynchronous   ✓

○ Faulty

○ Synchronous

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
If two data stores are able to be inconsistent during normal operations, then the
integration approach is: Asynchronous

✓ Data Governance touchpoints throughout the project lifecycle are   *1/1
   facilitated by this organization?

● The Data Governance Office   ✓

○ The Data Stewards Office

○ The Data Governance Steering Committee

○ The Master Data Office

○ The Project Management Office

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
DG touchpoints throughout the project lifecycle are facilitated by The DG Office.

✓ What are the primary responsibilities of a data steward? *   1/1

○ Identifying data problems and issues

○ The manager responsible for writing policies and standards that define the Data
   Management program for an organization

● A business role appointed to take responsibility for the quality and use of their   ✓
   organization's data assets

○ The data analyst who is the subject matter expert (SME) on a set of reference data

○ Analyzing Data Quality

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
primary responsibilities of a data steward: A business role appointed to take responsibility
for the quality and use of their organization's data assets.

✓ Which of these is NOT a primary deliverable of Data Quality Management?

○ Analysis from data profiling

○ Data Quality strategy and framework

⦿ Data attribute definitions

○ Data Quality reports

○ Data Quality service level agreements

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Data attribute definitions is NOT a primary deliverable of DQ Management.

✓ Which of these is a valid definition of master data? *

○ Data that if missing or incorrect will cause transactions and processes to fail

○ Data that rarely, if ever, changes

○ Data that other data sits hierarchically beneath

⦿ Data about the business entities that provide context for business transactions

○ Data that is only held in one data source

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
master data: Data about the business entities that provide context for business transactions.

✓ Complete the following statement: A business rule _____? *

○ Defines an entity

○ Identifies an entity instance

○ Measures a business process

⦿ Defines constraints on what can and cannot be done

○ Only exists at the level of the physical data model

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
A business rule defines constraints on what can and cannot be done.

✓ Obfuscation or redaction of data is the practice of? *

○ Reducing the size of large databases

○ Organizing data into meaningful groups

⦿ Making information anonymous or removing sensitive information

○ Making information available to the public

○ Selling data

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Obfuscation or redaction of data is the practice of Making information anonymous or removing sensitive information.

✓ **Which of the following should a DBA (database administrator) do if a database schema change is failing?**

○ Instruct the software designer to refer to the script and re-run it

⦿ Apply the backout plan to restore a consistent database state

○ Remove all the content of the tables and try again

○ Call the software vendor of the database for technical support

○ Call IT support to restore a previous version of the database

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
if a database schema change is failing, a DBA should Apply the backout plan to restore a consistent database state.

✓ **Which of the following statements regarding a value domain is FALSE?** *

○ Conforming value domains across the organization facilitates Data Quality

○ A value domain is a set of allowed values for a given code set

○ More than one set of reference data value domains may refer to the same conceptual domain

⦿ Value domains are defined by external standard organizations

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Value domains are NOT defined by external standard organizations.

✓ **The data dictionary describes?** *

○ Mainly source, target, and transformation rules

○ Mainly extract, transform, and access processes

○ Mainly availability and integrity quality rules

○ Mainly data in XML, JSON, and text forms

⦿ Mainly data in business terms directly from the logical model

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
The data dictionary describes Mainly data in business terms directly from the logical model.

✓ **A bank applies the business rule that each Customer may own one or many Accounts and each Account must be owned by one or many Customers. Which relationship type would be most appropriate?**

○ one-to-many.

⦿ many-to-many.

○ one-to-one.

○ recursive.

○ many-to-one.

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
relationship type for: A bank applies the business rule that each Customer may own one or many Accounts and each Account must be owned by one or many Customers is: many-to-many.

✓ ✱ An Enterprise Content Management system (ECM) stores the following? * 1/1

○ Backups of the enterprise's data warehouse

○ Documents and images, but not multimedia

● Information to be displayed on websites and contained in documents

○ Kanban boards

○ Code and test scripts for enterprise development environments

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
An Enterprise Content Management system (ECM) stores Information to be displayed on websites and contained in documents.

✓ "Slice", "Dice", "Roll-up" and "Pivot" are terms used in what kind of data processing? 1/1

○ OLTP

● OLAP

○ EIEIO

○ ODS

○ EDI

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
"Slice", "Dice", "Roll-up" and "Pivot" are terms used in OLAP data processing.

✓ A _____ is used for detailing collaboration principles, escalation, and dispute resolution process between Master Data Management and its data suppliers? 1/1

○ Operations run book

○ Business requirements document

● Operational level agreement

○ Metadata catalog

○ Warranty

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
An Operational level agreement is used for detailing collaboration principles, escalation, and dispute resolution process between Master DM and its data suppliers.

✓ The role of the Physical data model in the Metadata repository is: * 1/1

○ How many master data records are stored in our MDM system

○ What the business definition of data concepts is

○ Which version of COTS software (E.g. SAP) is implemented

○ When the duplicated records were merged

● To describe how and where our data is stored in our systems applications or packages

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
The role of the PDM in the Metadata repository is: To describe how and where our data is stored in our systems applications or packages.

✓ Information is: *

○ Data in context

○ A management discipline

○ Always stored in a computer system

○ A byproduct of IT systems

Feedback

Akram Al Hossainy : You're right!

Add to your notes: information is data in context.

✓ An employee may work for one other employee and may manage one or more employees. There is an indeterminate number of levels in this management hierarchy. What type of relationship would work best?

○ identifying.

○ non-identifying.

○ recursive.

○ subtyping.

○ one-to-one.

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
relationship type for: An employee may work for one other employee and may manage one or more employees. There is an indeterminate number of levels in this management hierarchy is: recursive.

✓ What would you not expect to find in the MetaData repository? *

○ Data Dictionary

○ Data storage devices

○ Data Requirements

○ Data Lineage diagrams and models

○ Data Models

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
What would you not expect to find in the MetaData repository: Data storage devices

---

✓ The goals of data operations include which of the following? *

○ Assuring the quality of the structured data assets, taking backups, and managing the security of the database

○ Providing the right database access rights, solving software bugs, and managing database logs

○ Assuring availability of the data throughout its lifecycle, protection and integrity assurance of structured data assets, and performance optimization of database transactions

○ Assuring backups are taken, managing the performance of SQL, and checking data quality

○ Assuring the performance of the network and storage devices, the quality of the SQL statements, and the selection of DBMS platform

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
The goals of data operations include Assuring availability of the data throughout its lifecycle, protection and integrity assurance of structured data assets, and performance optimization of database transactions.

✓ A Data Quality Service Level Agreement (SLA) would normally include which of these?

◉ Respective roles and responsibilities for Data Quality

○ A business case for data improvement

○ A breakdown of the costs of Data Quality improvement

○ An enterprise data model

○ Detailed technical specifications for data transfer

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
A DQ Service Level Agreement (SLA) would normally include Respective roles and responsibilities for DQ.

✓ Big data is often defined by three characteristics. They are: *

○ Complexity, Compliance and Completeness

○ Direction, Depth and Details

○ Expansive, Engaged and Enormous

○ Size, Speed and Sensitivity

◉ Volume, Variety and Velocity

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Big data is often defined by three characteristics. They are: Volume, Variety and Velocity.

✓ Which of the following is a typical metric in data warehouse/BI projects? *

○ Number of fact tables connected

○ Number of different metadata used

◉ Number of concurrent users connected to the data warehouse

○ Number of snowflake dimensions used in the projects

○ Number of indexes used in the fact table

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
the following is a typical metric in data warehouse/BI projects: Number of concurrent users connected to the data warehouse.

✓ Which of these are characteristics of an effective data security policy? *

○ None of these

○ The procedures are tightly defined, with rigid and effective enforcement sanctions and alignment with technology capabilities

◉ The defined procedures ensure that the right people can use and update data in the right way, and that all inappropriate access and update is restricted

○ The policies are specific, measurable, achievable, realistic, and technology-aligned

○ The procedures defined are benchmarked, supported by technology, framework-based, and peer-reviewed

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
characteristics of an effective data security policy include: The defined procedures ensure that the right people can use and update data in the right way, and that all inappropriate access and update is restricted.

✓ **Which of the following is not a good example of BI?** *

○ Strategic Analytics for Business Decisions

○ Trend Analysis

● Statutory reporting to a Regulatory Body

○ Decision Support Systems

○ Supporting Risk Management Decision Reporting

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
the following is not a good example of BI: Statutory reporting to a Regulatory Body.

✓ **The right to be forgotten is?** *

○ A person's right to have imperfect memory

○ A person's right to have their information removed from all databases on earth

○ A person's right to change their name

○ A person's right for all search criteria not to lead to their details

● A person's right to have all their information erased from an organization

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
The right to be forgotten is A person's right to have all their information erased from an organization.

✓ **Which of these is a valid definition of reference data?** *

● Data used to classify or categorize other data

○ Data that provides metadata about other data entities

○ Data that has a common and widely understood data definition

○ Data that is widely accessed and referenced across an organization

○ Data that is fixed and never changes

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
reference data: Data used to classify or categorize other data.

✓ **When integrating two data stores using batch or real-time synchronous approaches, results in a difference in:**

○ source of truth

○ time stamping

○ lethargy

● latency

○ Data Quality

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
When integrating two data stores using batch or real-time synchronous approaches, results in a difference in: latency

✓ According to the DAMA DMBoK, the Data Governance Council (DGC) is the highest-authority organization for Data Governance in an organization. Who should typically chair this Council?

○ The chair should rotate across the Data Owners

◉ Chief Data Steward (Business)/Chief Data Officer

○ Any executive/c-level participant in the DGC

○ The Chief Data Architect

○ The Chief Information Officer (CIO)

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Chief Data Steward (Business)/Chief Data Officer typically chair the DG Council (DGC) .

✓ What area do you not consider when developing a Data Governance Operating Model?

◉ The availability of industry data models

○ Impact of regulation

○ The business model – decentralized versus centralized

○ Cultural factors such as acceptance of discipline and adaptability to change

○ The value of data to the organization

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
The availability of industry data models is Not considered when developing a DG Operating Model

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✓ Periodic archiving of transaction data from a production CRM system is critical for:

○ providing alternate sources for reporting systems.

○ managing deleted customer records.

◉ the maintenance of database performance.

○ enabling the distribution of transaction data across the enterprise.

○ training junior DBAs.

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Periodic archiving of transaction data from a production CRM system is critical for: the maintenance of database performance.

✓ A 'Data Swamp' is a data lake that has become: *

◉ messy, unclean and inconsistent.

○ modelled, managed and muddy

○ overly catalogued, holding information and data.

○ suitable for frogs, toads and salamanders

○ a data asset that uses machine learning.

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
A 'Data Swamp' is a data lake that has become: messy, unclean and inconsistent.

✓ All of the following are TRUE statements on relationship types except: *

○ A many-to-many relationship says that an instance of each entity may be associated with many instances of the other entity, and vice versa.

○ A one-to-many relationship says that a parent entity may have one or more child entities.

⦿ A one-to-many relationship says that a child entity may have one or more parent entities.

○ A one-to-one relationship says that a parent entity may have one and only one child entity.

○ A recursive relationship relates instances of an entity to other instances of the same entity.

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
relationship types NOT TRUE statement: A one-to-many relationship says that a child entity may have one or more parent entities.

✓ Non value-added information is often not removed because: *

○ Legislation is unclear on what should be kept

⦿ The policies are unclear of what is defined as non-value-added, storage is cheap so there is no cost driver, and it takes more effort to dispose than to keep

○ Data is an asset. It is likely to be recognized as valuable in the future

○ It should not be removed. All data is value-added

○ We might need the information at a later stage

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Non value-added information is often not removed because: The policies are unclear of what is defined as non-value-added, storage is cheap so there is no cost driver, and it takes more effort to dispose than to keep.

✓ When performing an evaluation of analytic applications, which of the following questions is least relevant to identify the level of effort needed?

○ How much do the canned processes in the tool match our business

○ How much of the tool infrastructure meets our organisational infrastructure

○ The Standard source systems for which ETL is supplied

⦿ Annual costs such as license, maintenance, etc.

○ No. of source systems we need to integrate into the tool

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
When performing an evaluation of analytic applications, the following questions is least relevant to identify the level of effort needed: Annual costs such as license, maintenance, etc.

✓ The Data Management Body of Knowledge is produced by? *

○ The Data Analysis Association

○ The Project Management Institute

⦿ The Data Management Association

○ The Data Management Authority

○ The Data Practitioner Association

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
The DM Body of Knowledge is produced by The DM Association.

✓ The acronym ACID stands for: *

○ available, completeness, isolation and dangerous.

● atomicity, consistency, isolation and durability

○ actual, created, identified and deleted.

○ available, corrupt, isolation and durable

○ atomicity, completeness, independence and durability.

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
The acronym ACID stands for: atomicity, consistency, isolation and durability.

✓ Which of these statements best defines Data Security Management? *

○ None of these

○ The implementation and execution of checkpoints, checklists, controls, and technical mechanisms to govern the access to information in an enterprise

● The planning, development, and execution of security policies and procedures to provide proper authentication, authorization, access, and auditing of data and information assets

○ The planning, implementation, and testing of security technologies, authentication mechanisms, and other controls to prevent access to information

○ The definition of controls, technical standards, frameworks, and audit trail capabilities to identify who has or has had access to information

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Data Security Management: The planning, development, and execution of security policies and procedures to provide proper authentication, authorization, access, and auditing of data and information assets.

✓ Data that is used infrequently or not at all may be moved to an alternative data store. This is called:

● archiving

○ authentication

○ replication

○ analysis

○ auditing

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Data that is used infrequently or not at all may be moved to an alternative data store. This is called: archiving

✓ The number of artifacts that must be searched in the Metadata repository for all Business change projects are:

○ The Business Data Glossary and Systems Inventory must be consulted

● There is no mandatory number of artefacts to be searched but it is highly recommended that the library is examined

○ The Business Data Glossary and Data Dictionary must be examined

○ Conceptual data models and the Business Data Glossary must be examined

○ Conceptual, Logical and Physical models must be examined

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
The number of artifacts that must be searched in the Metadata repository for all Business change projects are: There is no mandatory number of artefacts to be searched but it is highly recommended that the library is examined.

✓ Critical to the success of the data warehouse is the ability to explain the data. The DMBoK knowledge area that practices these techniques is:

○ Reference and Master Data

○ Data Storage and Operations

● Metadata Management

○ Data Architecture

○ Document & Content Management

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Critical to the success of the data warehouse is the ability to explain the data. The DMBoK knowledge area that practices these techniques is: Meta management.

✓ Information Governance and Data Governance should be? *

○ Managed as separate functions

○ Managed by the Chief Information Office

○ Managed as integrated functions, with Data Governance reporting to Information Governance

○ Managed as integrated functions, with Information Governance reporting to Data Governance

● Managed as a single function

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Information Governance and DG should be Managed as a single function.

✓ When the DMBoK calls Data Quality Management a program, not a project, it means?

○ Data Quality practices can stop at the end the project

● Data Quality has both project and maintenance work along with communications and training

○ Data Quality managers can be paid more than project managers

○ Data Quality management is really expensive

○ Data Quality is more tightly scoped and planned than ordinary projects

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
When the DMBoK calls DQ Management a program, not a project, it means: DQ has both project and maintenance work along with communications and training.

✓ Identify who has "primary" responsibility for data capture and usage design within programs?

○ Data Architects or Data Analysts or Database Administrators

○ Suppliers or Consumers

○ Data Management Executive or BI Analysts or Data Security Administrator

● Software Architects or Developers

○ Business Data Stewards or Subject Matter Experts (SMEs)

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Software Architects or Developers: have "primary" responsibility for data capture and usage design within programs.

✓ What is NOT a discipline of Data Management according to the DAMA DMBoK?

○ Data Security Management

○ Data Quality Management

● Data Virtualization

○ Document and Content Management

○ Data Governance

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Data Virtualization is NOT a discipline of DM.

✓ A 'Data Lake' is an environment where a vast amount of data can be: *

○ purged, sorted, split and scanned.

○ ingested, screened, obfuscated and purged.

● ingested, shared, assessed and analysed.

○ updated, obfuscated, nullified and cleansed

○ digested, processed, deleted and visualised

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
A 'Data Lake' is an environment where a vast amount of data can be: ingested, shared, assessed and analysed.

✓ Data for big data ingestion can also be called the data lake. This needs to be carefully managed or the data lake will become?

○ An organizational statistic

○ A biased report

● A data swamp

○ Business relevance needs to be considered as a Data Quality metric in its own right

○ A data model

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Data for big data ingestion can also be called the data lake. This needs to be carefully managed or the data lake will become A data swamp.

✓ Which of the following activities are performed by data operations staff?

○ Clean data that is of bad quality

○ Manage the tape libraries

● Implement and control database environments, plan for data retention, keep track of database licenses, monitor and tune database performance

○ Grant access to tables, rewrite SQL statements

○ Tune the file systems

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
activities performed by data operations staff include: Implement and control database environments, plan for data retention, keep track of database licenses, monitor and tune database performance.

✓ Whose responsibility should it be to identify and report occurrences of defects in information and data?

○ Customers

○ Regulatory compliance officers

○ The IT department

● Any employee

○ The Information Quality team

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Any employee is responsible for identifying and reporting occurrences of defects in information and data.

✓ Master data differs from reference data in which following way? *

○ Master data does not require a data steward

○ Master data do not require business definitions

● Unlike reference data, master data is not usually limited to predefined domain values

○ Master data should be held to a higher Data Quality standard than reference data

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Unlike reference data, master data is not usually limited to predefined domain values.

✓ A common driver for initiating a Reference Data Management program is: *

○ It will consolidate the process of securing third party code sets

○ Managing codes and descriptions requires little effort and low cost

○ It can be a one-time-only project

● It will improve Data Quality and facilitate analysis across the organization

○ It fosters the creative use of data

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
A common driver for initiating a Reference DM program is: It will improve DQ and facilitate analysis across the organization.

✓ During the implementation of a data warehouse, a roadmap is used to? *

○ Articulate Data Quality checkpoints

○ Articulate user requirements

○ Construct intricate security authorization

● Demonstrate alignment to the project plan

○ Demonstrate progress towards the desired end state

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
During the implementation of a data warehouse, a roadmap is used to: Demonstrate alignment to the project plan.

✓ **A Data Quality dimension is?** *

○ A measurable feature or characteristic of data

○ A valid value in a list

○ The value of a particular piece of data

○ A core concept in dimensional modeling

○ One aspect of Data Quality used extensively in Data Governance

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
A DQ dimension is a measurable feature or characteristic of data.

✓ **Every enterprise is subject to many governmental and industry regulations, many of which regulate how data and information are used and managed. Part of the Data Governance function is to?**

○ Perform ad-hoc audits of possible regulations to report to the Data Governance Council on an information-only basis

⦿ Monitor and ensure that organizations meet any regulatory compliance requirements

○ This is a risk and audit responsibility; Data Governance plays no role in this

○ This is about data. Data Governance is accountable for the whole process, with r and audit reporting to Data Governance

○ Enforce enterprise-wide mandatory compliance to regulations

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Part of the DG function is to Monitor and ensure that organizations meet any regulatory compliance requirements.

✓ **Which of these is NOT a typical activity in Data Quality Management?** *

○ Creating inspection and monitoring processes

○ Identifying data problems and issues

○ Analyzing Data Quality

⦿ Enterprise Data Modelling

○ Defining business requirements and business rules

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Enterprise Data Modeling is NOT a typical activity in DQ Management.

✓ **We do not expect to consult the MetaData repository when:** *

○ None of the these

○ Undertaking a data quality assessment

○ Investigating a data issue

⦿ Updating the operating system that the Master Data management toolset is running on

○ Assessing the impact of change

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
We do not expect to consult the MetaData repository when: Updating the operating system that the Master DM toolset is running on.

✓ Since data technology is rapidly becoming more diverse, one should consider which of the following when acquiring a new type of technology?

○ The current data retention policy

○ The number of servers that are currently in use

⦿ The problem for which technology means to solve and the solution stack for which you have already installed

○ The number of users that are connected to the current solution

○ The performance levels of the currently installed data technology

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Since data technology is rapidly becoming more diverse, one should consider: The problem for which technology means to solve and the solution stack for which you have already installed.

✓ One of the difficulties when integrating multiple source systems is? *

○ Having a Data Quality rule applicable to all source systems

○ Completing the Data Architecture on time for the first release

○ Modifying the source systems to align to the enterprise data model

○ Maintaining documentation describing the data warehouse operation

⦿ Determining valid links or equivalences between data elements

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
One of the difficulties when integrating multiple source systems is Determining valid links or equivalences between data elements.

✓ What is an Architecture Domain in TOGAF®? *

○ Application Architecture

⦿ All of the above

○ Technology Architecture

○ Business Architecture

○ Data Architecture

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Architecture domains In TOGAF® are: Business Architecture, Data Architecture, Application Architecture, and Technology Architecture.

✓ A comparatively new architectural approach is where volatile data is provisioned in a data warehouse structure to provide transactional systems with a combination of historical and near real time data to meet customer needs. This is a definition of:

○ On Line Transactional Processing System

⦿ Active Data Warehousing

○ Behavioural Decision Support Systems

○ Operational Data Store

○ On Line Analytical Processing Cube

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Active Data Warehousing: A comparatively new architectural approach is where volatile data is provisioned in a data warehouse structure to provide transactional systems with a combination of historical and near real time data to meet customer needs.

✓ The data operations team assures that the data is recoverable by what? * 1/1

○ Defining and executing the data recovery plan
○ Guaranteeing the applications take proper exports of the data
○ Maintaining a test, development, and production environment
○ Making sure the disks are checked regularly for write errors
○ Analyzing database error logs

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
The data operations team assures that the data is recoverable by Defining and executing the data recovery plan.

✓ In the BASE vs ACID model for Transaction Processing, "E" is best described which of these statements? 1/1

○ Business Availability of Secure data ELEMENTS
○ Eventual Data Consistency
○ Extra Validation
○ End to End data consistency
○ Eventual Availability of Data as described by the CAP theorem

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
In the BASE vs ACID model for Transaction Processing, "E" is best described as: Eventual Data Consistency.

✓ Which of the following is NOT a primary Master Data Management area of focus? 1/1

○ Producing clear data definitions for master data
○ Providing access to golden data records
○ Generating a golden record/ best version of the truth
○ Identifying duplicate records
○ Producing read-only versions of key data items

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Producing read-only versions of key data items is NOT a primary Master DM area of focus

---

✓ Which one of the following statements is true? * 1/1

○ Master Data Management requires techniques for splitting or merging an instance of a business entity
○ Master Data Management involves identifying and maintaining approved coded values
○ Business data stewards maintain lists of valid data values for master data instances
○ Reference Data Management involves identifying the "best" or "golden" record for each domain
○ Managing reference data requires the same activities and techniques as does managing master data

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Master DM requires techniques for splitting or merging an instance of a business entity.

✓ When defining Data Quality indicators, care must be taken to ensure that they have what?

○ A direct link to the Data Governance strategy

◉ Measurability, Relevance, and Acceptability

○ Items in a dashboard showing their improvement over time

○ Timeliness, Validity, and Accuracy

○ The core dimensions of Data Quality

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
When defining DQ indicators, care must be taken to ensure that they have: Measurability, Relevance, and Acceptability.

✓ Which of the following is NOT an activity that would enable business acceptance and user satisfaction?

○ Furnishing an end-to-end verifiable data lineage

○ Understanding the data and defining the operations team's responsiveness to identified issues

◉ Defining different types of reporting tools to be used for future business needs

○ Promoting scheduled meetings with user representatives

○ Ensuring perceptions of the quality of the data in the BI system are managed

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Defining different types of reporting tools to be used for future business needs is NOT an activity that would enable business acceptance and user satisfaction.

✓ Which statement is correct? *

○ All are correct

○ Data Management is designed to "govern" Data Governance practices

◉ Data Governance is informed by the Enterprise Information Architecture

○ Data Governance should not be embedded within broader governance framework

○ None are correct

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
DG is informed by the Enterprise Information Architecture.

✓ The library of information about our data (our metadata) is built so that: *

○ We can have a shared formalized view of requirements (e.g. what data quality we need)

◉ All of these

○ We can better manage it

○ We can better understand it

○ We can be consistent in our use of terminology

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
The library of information about our data (our metadata) is built so that:We can be consistent in our use of terminology;
We can better manage it;
We can have a shared formalized view of requirements (e.g. what DQ we need);
We can better understand it;

✓ Users continue to use a shared drive instead of a new Document Management System. This may be due to what?

○ A failure to back up the shared drive

○ Concern about the ability to version documents

○ The document management system is too expensive

◉ Onerous classification requirements when adding documents

○ Concurrent updates to the document are handled better by the shared drive

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Users continue to use a shared drive instead of a new Document Management System. This may be due to Onerous classification requirements when adding documents.

✓ When considering a Data Governance program, communication is a key element. There are many ways of managing this communication, with one of the most effective being a Data Management intranet. Which of the following would you typically NOT put onto such a communication vehicle?

○ Executive message regarding significant Data Management issues

○ Link to a "raise an issue" log

○ The data steward team profiles

◉ Raw data results of an investigation into a possible data privacy breach

○ Description of the DG organization, its key members, and contact details

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
NOT an effective way to communicate a DG program: Raw data results of an investigation into a possible data privacy breach put on a DM intranet.

✓ A strong argument for pursuing a Reference Data and/or Master Data management initiative is:

○ They are essential functions in the Data Management framework

○ Job security for the data people

◉ By centralizing the management of reference and master data, the organization can conform critical data needed for analysis

○ It will not require a lot of time or effort

○ It will not require a lot of time

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
A strong argument for pursuing a Reference Data and/or Master DM initiative is: By centralizing the management of reference and master data, the organization can conform critical data needed for analysis.

✓ A security mechanism that searches for customer bank account details in outgoing emails is achieving the goal of:

○ None of these

○ ensuring stakeholder requirements for service design and experience are met.

○ ensuring stakeholder requirements for openness and transparency are met.

○ ensuring stakeholder requirements for concise definitions and usage are met.

◉ ensuring stakeholder requirements for confidentiality and privacy are met.

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
A security mechanism that searches for customer bank account details in outgoing emails is achieving the goal of: ensuring stakeholder requirements for confidentiality and privacy are met.

✓ Which of these statements has the most meaningful relationship label? *

⦿ An order is composed of order lines.

◯ An order line contains orders

◯ An order is associated with order lines.

◯ An order is connected with order lines.

◯ An order is related to order lines.

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
relationship label meaningful example: An order is composed of order lines.

✓ When defining your business continuity plan, which of the following should one consider doing?

⦿ Consider written policies and procedures, impact mitigating measures, required recovery time and acceptable amount of disruption, the criticality of the documents

◯ Make sure that the data is retained sufficiently long, check that critical data is encrypted, check access rights

◯ Write a report and discuss with management the required budget

◯ Have the contracts in place to acquire new hardware in case of technical problems, define policies

◯ Determine the risk, probability and impact, check document backup frequency

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
When defining your business continuity plan, consider written policies and procedures, impact mitigating measures, required recovery time and acceptable amount of disruption, the criticality of the documents.

✓ When outsourcing Information Management functions, organizations can?

◯ Align strategy and control privacy

◯ Improve controls while reducing costs

◯ Identification

◯ Reduce cost of compliance and improve turnaround

⦿ Transfer control but not accountability

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
When outsourcing Information Management functions, organizations can: Transfer control but not accountability

✓ One of the key differences between operational systems and data warehouses is?

⦿ Operational systems focus on current data; data warehouses contain historical data

◯ Operational systems focus on business processes; data warehouses focus on business strategies

◯ Operational systems focus on historical data; data warehouses contain current data

◯ Operational systems focus on Data Quality; data warehouses focus on data security.

◯ Operational systems are available 24x7; data warehouses are available during business hours

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
One of the key differences between operational systems and data warehouses is: Operational systems focus on current data; data warehouses contain historical data.

✓ **What are relationship labels?** *

○ A relationship without cardinality.

◉ The verb phrases describing the business rules in each direction between two entities.

○ A foreign key that has been role-named.

○ The nullability setting on a foreign key.

○ A non-identifying relationship.

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
relationship labels: The verb phrases describing the business rules in each direction between two entities.

✓ **Which of the following is the best example of the Data Quality dimension of 'consistency'?**

○ The revenue data in the dataset is always $100 out

◉ All the records in the CRM have been accounted for in the data warehouse

○ The phone numbers in the customer file do not adhere to the standard format

○ The source data for the end of month report arrived one week late

○ The customer file has 50% duplicated entries

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
All the records in the CRM have been accounted for in the data warehouse is the best example of the DQ dimension of 'consistency'.

✓ **The MetaData repository enables us to establish multiple perspectives of data. These are:**

◉ Business and Technical Perspective

○ Dimensional and non dimensional perspective

○ Structured and unstructured

○ Internal and External

○ 3rd normal form and un normalised

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
The MetaData repository enables us to establish multiple perspectives of data. These are: Business and Technical Perspective.

✓ **Ontology asks _____ while metaphysics asks _____?** *

○ Why / How

○ How / Why

◉ What / How

○ How / What

○ What / Who

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Ontology asks What while metaphysics asks How.

✓ The process of translating plain text into complex codes to hide privileged information is:

◉ encryption

○ exaggeration.

○ elimination.

○ encapsulation.

○ None of these

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
The process of translating plain text into complex codes to hide privileged information is: encryption.

✓ We would expect to consult the Metadata Library when: *

○ Implementing a Data Quality tool

○ Accessing the internet

○ Formulating a Goverance policy

◉ Assessing the impact of change

○ Selecting a Data Storage device

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
We would expect to consult the Metadata Library when Assessing the impact of change.

✓ Who is responsible for communicating and promoting awareness of the value of Data Governance in the organization?

○ The Chief Executive Officer

○ Senior Management Executive Forum

○ Central Communications and Corporate Awareness

◉ Everyone in the Data Management community

○ Data stewards

Feedback

Akram Al Hossainy: Correct!

Add to your notes: Everyone in the DM community is responsible for communicating and promoting awareness of the value of DG in the organization.

✓ When new governmental and industry regulations are formulated and enacted, Data Governance plays a key role in the process of identifying the data and information components for compliance. What is the most important role in any regulatory compliance project?

◉ Working with business and technical leadership to find the best answers to a standard set of regulatory compliance questions (How, Why, When, etc)

○ Take no part in any project at all, declaring it an audit and risk project

○ Provide access to any possible data set to the compliance team and allow them mine the data for non-compliance

○ Create a Data Governance "in-house" project with a team of Data Stewards to create a standard response

○ Work in isolation and mine the data and information for compliance and non-compliance issues

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
The most important role in any regulatory compliance project is working with business and technical leadership to find the best answers to a standard set of regulatory compliance questions (How, Why, When, etc.)

✓ The role of the CDM in the Metadata repository is: *

◉ To summarize the key data subject areas for a business area at a high level of abstraction to enable the major data concepts to be understood

○ All of these

○ None of these

○ To determine the primary, alternate and foreign keys of entities

○ To agree the cardinality and optionality of relationships between all entities

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
The role of the CDM in the Metadata repository is: To summarize the key data subject areas for a business area at a high level of abstraction to enable the major data concepts to be understood.

✓ Which of the following is not a goal of Data Quality? *

○ Implement process to measure, monitor, and report on Data Quality

○ Define standards, requirements, and specifications for Data Quality controls

○ Advocate for opportunities to improve the quality of data

○ Develop a governed approach to make data fit for purpose

◉ The delivery of a Data Quality strategy and framework

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
The delivery of a DQ strategy and framework is NOT a goal of DQ.

✓ The acronym ETL most commonly stands for: *

○ Efficient Trace Logging

○ Extract Transpose Leverage

○ Extend Trim Load

○ Export Transform Log

◉ Extract Transform Load

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
When outsourcing Information Management functions, organizations can: Transfer control but not accountability

✓ Apart from security requirements internal to the organization, what other strategic goals should a Data Security Management system address?

◉ Regulatory requirements for privacy and confidentiality AND privacy and confidentiality needs of all stakeholders

○ Ensuring the organization doesn't engage in SPAM marketing

○ Compliance with ISO29100 and PCI-DSS

○ None of these

○ Compliance with ISO27001 and HIPPA

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Apart from security requirements internal to the organization, other strategic goals should a Data Security Management system address: Regulatory requirements for privacy and confidentiality AND privacy and confidentiality needs of all stakeholders

✓ You are facilitating a committee that is developing data quality metrics. Some of the committee members think that SMART (Specific, Measurable, Accountable, Results-Focused, Time-Bound) is a good model. Select the statement that best describes why business relevance needs to be considered as a characteristic of Data Quality metrics?

○ Unless you use business terms the end-users won't understand and lose interest the program

○ Expressing business relevance in requirements assists the metadata strategy

◉ The value of a metric is limited unless it can be linked to some aspect of a business. The metric's acceptability threshold needs to correlate with business expectations

○ Business relevance needs to be considered as a Data Quality metric in its own right

○ Any IT program must have some business relevance defined, or it is a waste of time

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
business relevance needs to be considered as a characteristic of DQ metrics because: The value of a metric is limited unless it can be linked to some aspect of a business. The metric's acceptability threshold needs to correlate with business expectations.

✓ According to DMBoK, which of these is NOT a valid dimension of Data Quality?

○ Currency

○ Completeness

○ Timeliness

○ Reasonableness

◉ Relevance

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Relevance is NOT a valid dimension of DQ.

✓ Which of the following is NOT a stage in the Shewhart – Deming Cycle that drives the Data Quality Improvement Lifecycle?

○ Check

○ Do

○ Act

○ Plan

◉ Investigate

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Investigate is NOT a stage in the Shewhart – Deming Cycle that drives the DQ Improvement Lifecycle.

✓ What is a common motivation for Reference & Master Data Management?

○ Business Intelligence and data warehousing

○ The need to build a data dictionary of all core data entities and attributes

○ The need to consolidate all data into one physical database

◉ The need to improve Data Quality and data integrity across multiple data sources

○ Regulatory acts such as BCBS239, GDPR, and SOX

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
The need to improve DQ and data integrity across multiple data sources is a common motivation for Reference & Master DM.

✓ To which of the following initiatives was the establishment of an industry
Meta-Data Standard essential?

○ Proprietary XML

○ JSON

● EDI

○ BASEL II/ SOX

○ Internet Protocols

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
To which of the following initiatives was the establishment of an industry Meta-Data
Standard essential: EDI

✓ Which of these is not a Knowledge Area in DMBoK v2? *

○ Data Governance

○ Master & Reference Data Management

○ Data Quality Management

○ Data Security Management

● Big Data & Data Science

Feedback

Akram Al Hossainy : You're right!

Add to your notes:
Big Data & Data Science is not a Knowledge Area in DMBoK v2.

✓ What factors should you consider when choosing data warehouse tools? *

○ Current and future costs

● All of the above

○ Professional service offerings

○ Build vs. buy vs. rent

○ Current and future requirements

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
factors to consider when choosing data warehouse tools include:
o Build vs. buy vs. rent
o Current and future requirements
o Current and future costs
o Professional service offerings

✓ Which of these is the best definition of an Ontology? *

○ A mythical creature from ancient Greece

○ The theory and science of collating structure of living things

○ The classification of something

● A set of concepts and categories in a subject area or domain that shows their
properties and the relations between them

○ An index of terms to enable rapid retrieval and explanation

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Ontology: A set of concepts and categories in a subject area or domain that shows their
properties and the relations between them.

✓ The Data Quality attribute that most closely matches the description "the difference between when the data is available and needed" is what?

○ All of the above

○ Privacy

○ Validity

◉ Timeliness

○ Consistency

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
The DQ attribute that most closely matches the description "the difference between when the data is available and needed" is Timeliness.

✗ You need to discover possible relationships or to show data patterns in an exploratory fashion when you do not necessarily have a specific question to ask. What kind of data tool would you use to identify patterns of data using various algorithms?

○ ETL Jobs

○ Reducing the size of large databases

○ Meta-Data Data Lineage View

○ Data Mining

◉ Data Visualisation Application

Correct answer

◉ Data Mining

Feedback

Akram Al Hossainy: Incorrect!

✓ Metadata repository processes will not include: *

○ All of these

◉ Selecting Data Management Library software, search, and storage technologies

○ Managing change to data products (e.g. Data Dictionary or Business Data Glossary) entries e.g. new data term to be defined, new data requirement, new database tables added, new system included into the technical landscape

○ Controlling versions of data product will be required to manage the required single published master copy in conjunction with the variants potentially established as work in progress

○ Assessing impact where change to existing data product entries are proposed e.g. the impact of change on related data on other systems

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Metadata repository processes will not include: Selecting DM Library software, search, and storage technologies.

✓ Three common interaction models for data integration are: *

○ straight copy, curved copy, roundabout copy

○ record and pass, copy and send, read and write

○ point to point, wheel and spoke, public and share

○ plane to point, harvest and seed, publish and subscribe

◉ point to point, hub and spoke, publish and subscribe

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Three common interaction models for data integration are: point to point, hub and spoke, publish and subscribe