Communicate insights to stakeholders Glossary terms from week 4 Career focus: Projects and portfolios Career focus: Join the field of business intelligence **Business intelligence presentation:** A communication with stakeholders about their needs or project status **Review: Present business** intelligence insights Terms and definitions from previous weeks Video: Wrap-up Reading: Glossary terms from week 10 min **Accuracy:** An element of quality testing used to confirm that data conforms to the actual entity being measured or described Quiz: Weekly challenge 4 **Application programming interface (API):** A set of functions and procedures that integrate computer programs, [Optional] Review Google Data forming a connection that enables them to communicate **Analytics Certificate content Applications software developer:** A person who designs computer or mobile applications, generally for consumers Attribute: In a dimensional model, a characteristic or quality used to describe a dimension Audience problem: A dashboard issue caused by failing to adequately consider the needs of the user Business intelligence (BI): Automating processes and information channels in order to transform relevant data into actionable insights that are easily available to decision-makers **Business intelligence governance:** A process for defining and implementing business intelligence systems and frameworks within an organization Business intelligence monitoring: Building and using hardware and software tools to easily and rapidly analyze data and enable stakeholders to make impactful business decisions **Business intelligence stages:** The sequence of stages that determine both BI business value and organizational data maturity, which are capture, analyze, and monitor Business intelligence strategy: The management of the people, processes, and tools used in the business intelligence **Business rule:** A statement that creates a restriction on specific parts of a database Columnar database: A database organized by columns instead of rows **Combined systems:** Database systems that store and analyze data in the same place **Compiled programming language:** A programming language that compiles coded instructions that are executed directly by the target machine **Completeness:** An element of quality testing used to confirm that data contains all desired components or measures **Conformity:** An element of quality testing used to confirm that data fits the required destination format **Contention:** When two or more components attempt to use a single resource in a conflicting way **Consistency:** An element of quality testing used to confirm that data is compatible and in agreement across all Data analysts: People who collect, transform, and organize data **Data availability:** The degree or extent to which timely and relevant information is readily accessible and able to be put to use Data dictionary: A collection of information that describes the content, format, and structure of data objects within a database, as well as their relationships Data governance professionals: People who are responsible for the formal management of an organization's data **Data integrity:** The accuracy, completeness, consistency, and trustworthiness of data throughout its life cycle Data lake: A database system that stores large amounts of raw data in its original format until it's needed **Data lineage:** The process of identifying the origin of data, where it has moved throughout the system, and how it has transformed over time Data mapping: The process of matching fields from one data source to another Data mart: A subject-oriented database that can be a subset of a larger data warehouse **Data maturity:** The extent to which an organization is able to effectively use its data in order to extract actionable Data model: A tool for organizing data elements and how they relate to one another **Data partitioning:** The process of dividing a database into distinct, logical parts in order to improve query processing and increase manageability **Data pipeline:** A series of processes that transports data from different sources to their final destination for storage and analysis Data problem: A dashboard issue caused by the data being used **Data visibility:** The degree or extent to which information can be identified, monitored, and integrated from disparate internal and external sources **Data warehouse:** A specific type of database that consolidates data from multiple source systems for data consistency, accuracy, and efficient access Data warehousing specialists: People who develop processes and procedures to effectively store and organize data **Database migration:** Moving data from one source platform to another target database **Database performance:** A measure of the workload that can be processed by a database, as well as associated costs **Deliverable:** Any product, service, or result that must be achieved in order to complete a project **Developer:** A person who uses programming languages to create, execute, test, and troubleshoot software applications **Dimension (data modeling):** A piece of information that provides more detail and context regarding a fact **Dimension (visualization):** A qualitative data type that can be used to categorize data **Dimension table:** The table where the attributes of the dimensions of a fact are stored Design pattern: A solution that uses relevant measures and facts to create a model in support of business needs Dimensional model: A type of relational model that has been optimized to quickly retrieve data from a data **Distributed database:** A collection of data systems distributed across multiple physical locations ELT (extract, load, and transform): A type of data pipeline that enables data to be gathered from data lakes, loaded into a unified destination system, and transformed into a useful format **Encoding:** The process of translating dimensions and measures into visual representations of the data ETL (extract, transform, and load): A type of data pipeline that enables data to be gathered from source systems, converted into a useful format, and brought into a data warehouse or other unified destination system **Experiential learning:** Understanding through doing Fact: In a dimensional model, a measurement or metric Fact table: A table that contains measurements or metrics related to a particular event Foreign key: A field within a database table that is a primary key in another table (Refer to primary key) Fragmented data: Data that is broken up into many pieces that are not stored together, often as a result of using the data frequently or creating, deleting, or modifying files Functional programming language: A programming language modeled around functions Google DataFlow: A serverless data-processing service that reads data from the source, transforms it, and writes it in the destination location Index: An organizational tag used to quickly locate data within a database system **Information technology professionals:** People who test, install, repair, upgrade, and maintain hardware and software solutions **Integrity:** An element of quality testing used to confirm that data is accurate, complete, consistent, and trustworthy throughout its life cycle Interpreted programming language: A programming language that uses an interpreter, typically another program, to read and execute coded instructions **Iteration:** Repeating a procedure over and over again in order to keep getting closer to the desired result **Key performance indicator (KPI):** A quantifiable value, closely linked to business strategy, which is used to track progress toward a goal **Logical data modeling:** Representing different tables in the physical data model Low-fidelity mockup: A simple draft of a visualization that is used for planning a dashboard and evaluating its progress **Measure:** A quantitative data type that can be either discrete or continuous **Metric:** A single, quantifiable data point that is used to evaluate performance **Object-oriented programming language:** A programming language modeled around data objects **Object-level permission:** A privacy setting that controls the availability of a single item in a dashboard **OLAP (Online Analytical Processing) system:** A tool that has been optimized for analysis in addition to processing and can analyze data from multiple databases **OLTP (Online Transaction Processing) database:** A type of database that has been optimized for data processing instead of analysis **Optimization:** Maximizing the speed and efficiency with which data is retrieved in order to ensure high levels of database performance **Portfolio:** A collection of materials that can be shared with potential employers **Pre-aggregation:** The process of performing calculations on data while it is still in the database Primary key: An identifier in a database that references a column or a group of columns in which each row uniquely identifies each record in the table (Refer to foreign key) **Processing speed:** How quickly a program can update and load a specified amount of data **Project manager:** A person who handles a project's day-to-day steps, scope, schedule, budget, and resources **Project sponsor:** A person who has overall accountability for a project and establishes the criteria for its success **Public availability:** A privacy setting that allows anyone to access a dashboard **Python:** A general purpose programming language **Quality testing:** The process of checking data for defects in order to prevent system failures; it involves the seven validation elements of completeness, consistency, conformity, accuracy, redundancy, integrity, and timeliness **Query plan:** A description of the steps a database system takes in order to execute a query Redundancy: An element of quality testing used to confirm that no more data than necessary is moved, transformed, or stored **Resources:** The hardware and software tools available for use in a database system **Response time:** The time it takes for a database to complete a user request Row-based database: A database that is organized by rows **Row-level permission:** A privacy setting that controls the availability of specific rows of a table or dataset in a dashboard **Schema validation:** A process to ensure that the source system data schema matches the target database data schema **eparated storage and computing systems:** Databases where data is stored remotely, and relevant data is stored locally for analysis **Single-homed database:** Database where all of the data is stored in the same physical location **Snowflake schema:** An extension of a star schema with additional dimensions and, often, subdimensions **Star schema:** A schema consisting of one fact table that references any number of dimension tables **Strategy:** A plan for achieving a goal or arriving at a desired future state **Subject-oriented:** Associated with specific areas or departments of a business Systems analyst: A person who identifies ways to design, implement, and advance information systems in order to ensure that they help make it possible to achieve business goals **Systems software developer:** A person who develops applications and programs for the backend processing systems used in organizations **Tactic:** A method used to enable an accomplishment **Target table:** The predetermined location where pipeline data is sent in order to be acted on **Throughput:** The overall capability of the database's hardware and software to process requests **Timeliness:** An element of quality testing used to confirm that data is current **Tool problem:** A dashboard issue involving the hardware or software being used **Trade-off:** Balancing various factors, often by prioritizing one element while sacrificing another, in order to arrive at the best possible result **Transferable skill:** A capability or proficiency that can be applied from one job to another

therefore, cannot reveal any meaningful business insights

processed by the database system at any given time

Mark as completed

Vanity metric: Data points that are intended to impress others, but are not indicative of actual performance and,

Workload: The combination of transactions, queries, data warehousing analysis, and system commands being