Flashcards with answers on chapter 11

Collection of data organized in a manner that allows access, retrieval, and use of that dataDatabase

Collection of unprocessed itemsTextNumbersImagesAudioVideoData

Processed dataOrganizedMeaningfulUsefulInformation

-create a computerized database– add, modify, and delete data-sort retrieve data– create forms and reports from the dataDatabase Software (also called Database Management System DBMS)

reflects the quality of the dataData Integrity

The more____the data contains, the lower its integrityerrors

Valuable information should have the following characteristics:-accurate–accesible-cost effective-organized-timely-verifiable-useful

__ is organized in layersData

Data layers: Files, records, fields, characters

A ___ is one byteCharacter

Numbers, letters, space, punctuation marks, or other symbolsCharacters

A field is a combination of one or more related characters:-field name-field size– data type

A __ is a group of related fieldsrecord

A ____ is a field that uniquely identifies each recordprimary key

A ___ is a collection of related recordsdata file

___ refers to the procedures that keep data current (adding records, modifying records, deleting records)File maintenance

Users add new records to a file when they obtainnew data

When a record no longer is needed, a user deletes it from afile

___ compares data with a set of rules or values to find out if the data is correctValidation

-Each department has its own set of files-Have data redundancy-Isolate dataFile Processing System

A ___ contains data about each file in the database and each field in those filesdata dictionary

A ___ provides several tools that allow users and programs to retrieve and maintain data in the databaseDBMS

A ___ consists of simple, English-like statements that allow users to specify the data to display, print, store, update, or deletequery language

___ is a popular query language that allows users to manage, update, and retrieve dataMany DBMSs provide tools to guide nontechnical users through the steps of creating a queryStructured Query Language (SQL)

Most DBMSs include ____, a feature that has a graphical user interface to assist users with retrieving dataquery by example (QBE)

A__ is a window on the screen that provides areas for entering or modifying data in a databaseform

A ____ allows users to design a report on the screen, retrieve data into the report design, and then display or print the reportreport writer

A __ provides means to ensure that only authorized users access dataDBMS

A __ defines how users view the organization of the datadata model

A ___ stores data in tables that consist of rows and columnsrelational database

Each __has a primary keyrow

Each __ has a unique namecolumn

A __ is a link within the datarelationship

An___ stores data in objectsobject-oriented database (OODB)

A ___ can store data in more than two dimensions of datamultidimensional database

multidimensional database is also known as ahypercube

Can consolidate data much faster than a relational databasemultidimensional databases

A____ is a huge database that stores and manages the data required to analyze historical and current transactionsdata warehouse

___ and administrators are responsible for managing and coordinating all database activitiesDatabase analysts

Decides on proper placement of fields, defines data relationship, and identifies users' access privilegesDatabase Analyst (DA)

Creates and maintains the data dictionary, manages security of the database, monitors the performance of the database, and checks backup and recovery proceduresDatabase Administrator DBA

An ___ is a set of hardware, software, data, people, and procedures that work together to produce informationinformation system

____ integrates MRP II with the information flow across an organization to manage and coordinate the ongoing activities of the enterprise, including product planning, manufacturing and distribution, accounting and finance, sales, human resources, and customer supportEnterprise Resource Planning (ERP)

A ___allows for storage and management of a company's documents, such as word processing documents, presentations, and spreadsheetsdocument management system (DMS)

A ___ enables and manages the publishing, modification, organization, and access of various forms of documents and other files, including media and webpages, on a network or the webcontent management system (CMS)

A ___ is an information system that captures and processes data from day-to-day business activitiestransaction processing system (TPS)

A ___ is an information system that generates accurate, timely, and organized information, so that managers and other users can make decisions, solve problems, supervise activities, and track progressmanagement information system (MIS)

A ___ helps users analyze information and make decisionsdecision support system (DSS)

An ___ is an information system that captures and stores the knowledge of human experts and then imitates human reasoning and decision makingexpert system

the application of human intelligence to computersAI

AI: Artificial Intelligence

A back up plan where changes are backed up as they are madeContinuous Backup

specifies the kind of data a field can contain and how the filed is useddata type

or copy, of the entire database should be made on a regular basisbackup

the process of determining the organization of a databasedatabase design

DBMS: Database management system

helps users analyze information and make decisionsDSS

DSS: Decision Support System

uniquely identifies each fieldField Name

a listing of activities that modify the contents of the databaseLog

an item that contains data, as well as the actions that read or process the dataobject

a request for specific data from the databasequery

uses logs and or backups and either a roll forward or a rollback technique to restore a database when it becomes damaged or destroyedRecovery Utility

ensures that users enter only alphabetic data into a fieldAlphabetic Check

a relational database refers to a field as anattribute

a relational database refers to a record as antuple

an application that supports a front-end program sometimes is called theback end

in a roll back also called a ___, the DBMS uses the log to undo any changes made to the database during a certain periodbackward recovery

with, ___ the computer collects data over time and processes all transactions later, as a groupBatch Processing

describes the widespread growth of data, the variety of formats in which this data is available and the processing required to make this data accessible in a timely mannerBig Data

BLOB: Binary Large Object

where users store and share photos, videos, recordings, and other personal media with other registered usersCollaborative Databases

in some tables, the primary key consists of multiple fields called acomposite key

aids in the development and testing of product designs, and often includes CADCAE

CAE: Computer-aided Engineering

controls production equipment, such as drills, lathes, and milling machinesCAM

CAM: Computer-aided engineering

manages information about customers, past purchases, interests, and the day-to-day interactions, (like phone calls)CRM

CRM: Customer Relationship Management

a smaller version of a data warehouse is thedata mart

data warehouses use a process called __ to find patterns and relationships among datadata mining

Is a value that the DBMS initially displays in a fieldDefault Value

the data in a ___ exists in many separate locations throughout a network or the internetDistributed Database

could include interest rates, population trends, costs of new housing construction, or raw material pricingexternal sources

is an attribute in on e entity that exists in another entity as a primary keyForeign Key

in a rollfoward also called a __ the DBMS uses the log to reenter changes made to the database since the last save or back up. forward recovery

a program that generally has a more user-friendly interface than the DBMSFront End

occurs when a company uses the technology intended for one purpose for anotherfunction creep

GIS: Geographic Information System

HRIS: Human Resources Information System

Are a set of logical judgments that are applied to the knowledge base each time a user describes a situation to the expert systemInference Rules

___ of data might include databases, sales orders, MRP MRPII results, inventory records, financial data etc. internal sources

MRP: Material Requirements Planning

MRP II: Material Requirements Planning II (an extension of I)

because the data dictionary contains details about data, some call itmetadata

A query language used to manipulate and retrieve dataOQL

OQL: Object Query Language

ORD: Object Relational Database

OLAP: Online Analytical Processing

where user's access privileges are limited to the lowest level necessary to perform required tasksPrinciple of least Privilege Policy

reporter writer is also called areport generator

a data dictionary is sometimes called arepository

SFA: Salesforce Automation

consolidates data usually with totals, tables, or graphs, so that managers can review it quick and easilysummary report

A __ check tests data in two or more associated fields to ensure that the relationship is logical and their data is in the correct formatConsistency

Which of the following is not an advantage of a database approachRequires less memory/ storage

A developer of a relational database refers to a file as arelation

An __ database stores data in objectsObject-oriented

With __, the computer processes each transaction as it is enteredOnline transaction Processing

A __ report usually lists just transactionsdetailed

In an expert system, the __ is the combined subject knowledge and

experiences of the human expertknowledge base

A __ report usually lists just transactionsdetailed