

Experiencing MIS, 9e (Kroenke)

Chapter Extension 4 Reporting Systems and OLAP

1) A(n) _____ enables people to create information by processing data from disparate data sources and delivering that information to the proper users on a timely basis.

- A) operating system
- B) reporting system
- C) intrusion detection system
- D) domain name system

Answer: B

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-1: How Do Reporting Systems Enable People to Create Information?

Classification: Concept

2) Kevin, the store manager of a retail store, wants a list of customers who have made more than two purchases from the store in the previous month. The _____ operation of a reporting system would help Kevin in obtaining this list.

- A) categorizing
- B) calculating
- C) grouping
- D) filtering

Answer: D

AACSB: Reflective Thinking

Difficulty: 2: Moderate

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-1: How Do Reporting Systems Enable People to Create Information?

Classification: Application

3) Which of the following types of reports is an example of a push report?

- A) static report
- B) dynamic report
- C) query report
- D) online analytical processing (OLAP) report

Answer: A

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-1: How Do Reporting Systems Enable People to Create Information?

Classification: Concept

4) Reporting systems cannot generate reports that require calculations on data.

Answer: FALSE

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss the key issues involved in managing the components of IT infrastructure.

Learning Obj: LO CE4-1: How Do Reporting Systems Enable People to Create Information?

Classification: Concept

5) What are reporting systems? What are the fundamental operations they perform?

Answer: A reporting system is an information system that creates information by processing data from disparate sources and delivering that information to the proper users on a timely basis. Reporting systems manipulate data into meaningful context using four fundamental operations: (1) filtering data, (2) sorting data, (3) grouping data, and (4) making simple calculations on the data.

AACSB: Information Technology

Difficulty: 2: Moderate

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-1: How Do Reporting Systems Enable People to Create Information?

Classification: Concept

6) Which of the following describes the reports, users, groups, roles, events, and other entities involved in the reporting activities of a reporting system?

A) network packets

B) data structures

C) metadata

D) microdata

Answer: C

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-2: What Are the Components and Characteristics of Reporting Systems?

Classification: Concept

7) _____ are used by a reporting system to prepare and deliver reports to proper users on a timely basis.

A) Metadata

B) Microdata

C) Network packets

D) Data structures

Answer: A

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-2: What Are the Components and Characteristics of Reporting Systems?

Classification: Concept

8) Reports that are not subject to change and are prepared from underlying data are referred to as _____.

- A) exception reports
- B) static reports
- C) subscription reports
- D) dynamic reports

Answer: B

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-2: What Are the Components and Characteristics of Reporting Systems?

Classification: Concept

9) Reports that are updated and generated by a reporting system at the time of creation are referred to as _____.

- A) exception reports
- B) static reports
- C) query reports
- D) dynamic reports

Answer: D

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-2: What Are the Components and Characteristics of Reporting Systems?

Classification: Concept

10) Steve, the branch manager at a brokerage firm, is concerned about the sudden dip in stock prices. He asks for a report on the current stock prices to analyze the incurred loss. The report Steve requires is an example of a(n) _____.

- A) static report
- B) dynamic report
- C) exception report
- D) query report

Answer: B

AACSB: Reflective Thinking

Difficulty: 2: Moderate

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-2: What Are the Components and Characteristics of Reporting Systems?

Classification: Application

11) Emma needs to order thirty white shirts for a college play from an online store. She logs onto the Web site and enters her requirement. She receives a report stating that the store currently has only twenty shirts in stock. This information is an example of a(n) _____.

- A) query report
- B) static report
- C) dynamic report
- D) online analytical processing(OLAP) report

Answer: A

AACSB: Reflective Thinking

Difficulty: 2: Moderate

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-2: What Are the Components and Characteristics of Reporting Systems?

Classification: Application

12) Which of the following types of reports allows users to dynamically change the report grouping structures?

- A) query reports
- B) static reports
- C) dynamic reports
- D) online analytical processing (OLAP) reports

Answer: D

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-2: What Are the Components and Characteristics of Reporting Systems?

Classification: Concept

13) Which of the following is an electronic report medium that can be customized for a particular user?

- A) Web site
- B) email alert
- C) digital dashboard
- D) PDF file

Answer: C

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-2: What Are the Components and Characteristics of Reporting Systems?

Classification: Concept

14) Amy eagerly awaits the launch of the summer flash sale on her favorite online shopping site. She registers her cell phone number and email ID on the site to receive a notification when the sale begins. The notification that Amy will receive from the shopping site is an example of a(n) _____.

- A) query report
- B) subscription
- C) exception report
- D) alert

Answer: D

AACSB: Reflective Thinking

Difficulty: 2: Moderate

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-2: What Are the Components and Characteristics of Reporting Systems?

Classification: Application

15) Which of the following does a user receive without any activity on his or her part?

- A) pull report
- B) push report
- C) subscription
- D) alert

Answer: B

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-2: What Are the Components and Characteristics of Reporting Systems?

Classification: Concept

16) A pull report refers to a report _____.

- A) sent to users according to a preset schedule
- B) about the functioning of an organization's information systems
- C) generated by user request
- D) prepared by an organization from a competitor's data

Answer: C

AACSB: Information Technology

Difficulty: 2: Moderate

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-2: What Are the Components and Characteristics of Reporting Systems?

Classification: Concept

17) Which of the following report media is used for delivering a query report?

- A) paper and PDF file
- B) digital dashboard
- C) Web site
- D) alerts via email

Answer: C

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-2: What Are the Components and Characteristics of Reporting Systems?

Classification: Concept

18) A reporting system uses metadata to prepare and deliver reports to proper users on a timely basis.

Answer: TRUE

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-2: What Are the Components and Characteristics of Reporting Systems?

Classification: Concept

19) Query reports allow users to dynamically change the report grouping structures.

Answer: FALSE

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss the key issues involved in managing the components of IT infrastructure.

Learning Obj: LO CE4-2: What Are the Components and Characteristics of Reporting Systems?

Classification: Concept

20) A report on the current stock prices in the market is an example of a static report.

Answer: FALSE

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss the key issues involved in managing the components of IT infrastructure.

Learning Obj: LO CE4-2: What Are the Components and Characteristics of Reporting Systems?

Classification: Concept

21) Alerts generated on the basis of user notification are not treated as reports.

Answer: FALSE

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-2: What Are the Components and Characteristics of Reporting Systems?

Classification: Concept

22) Push reports are generated only on receiving a user request.

Answer: FALSE

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-2: What Are the Components and Characteristics of Reporting Systems?

Classification: Concept

23) How does a reporting system obtain the necessary data to generate reports?

Answer: Data from disparate data sources are read and combined, using filtering, sorting, grouping, and simple calculating, to produce information. Some data are generated within an organization, other data are obtained from public sources, and still other data may be purchased from data utilities.

AACSB: Information Technology

Difficulty: 2: Moderate

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-2: What Are the Components and Characteristics of Reporting Systems?

Classification: Concept

24) Explain the different types of reports.

Answer: The different types of reports are static reports, dynamic reports, query reports, and online analytical processing (OLAP) reports. Static reports are prepared once from underlying data, and they do not change. A report of past year's sales, for example, is a static report. Other reports are dynamic; at the time of creation, the reporting system reads the most current data and generates the report using that fresh data. A report on sales today and a report on current stock prices are both dynamic reports. Query reports are prepared in response to data entered by users. Online analytical processing (OLAP) is a fourth type of report. OLAP reports allow users to dynamically change report grouping structures and to sum, count, average, and perform other simple arithmetic operations on groups of data.

AACSB: Information Technology

Difficulty: 2: Moderate

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-2: What Are the Components and Characteristics of Reporting Systems?

Classification: Concept

25) What is the difference between push and pull reports?

Answer: Organizations send a push report to users according to a preset schedule. Users receive the report without any activity on their part. In contrast, users must request a pull report. To obtain a pull report, a user goes to a Web portal or digital dashboard and clicks a link or button to cause the reporting system to produce and deliver the report.

AACSB: Information Technology

Difficulty: 2: Moderate

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-2: What Are the Components and Characteristics of Reporting Systems?

Classification: Concept

26) _____ involves connecting to data sources, creating report structures, and formatting reports.

- A) Report evaluation
- B) Report authoring
- C) Report monitoring
- D) Report delivery

Answer: B

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-3: How Are Reports Authored, Managed, and Delivered?

Classification: Concept

27) The _____ in a reporting system indicate the channel to be used for sending a report to a user and whether the report is to be pushed or pulled.

- A) metadata
- B) microdata
- C) network packets
- D) data structures

Answer: A

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-3: How Are Reports Authored, Managed, and Delivered?

Classification: Concept

28) The _____ function of a reporting system pushes reports or allows them to be pulled according to report management metadata.

- A) report authoring
- B) report monitoring
- C) report delivery
- D) report evaluation

Answer: C

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-3: How Are Reports Authored, Managed, and Delivered?

Classification: Concept

29) For query reports, the report delivery system serves as an intermediary between a user and a report generator.

Answer: TRUE

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-3: How Are Reports Authored, Managed, and Delivered?

Classification: Concept

30) Explain report authoring, report management, and report delivery.

Answer: Report authoring involves connecting to data sources, creating a report structure, and formatting the report. Organizations can author reports by using a developer tool like Microsoft's Visual Studio. The purpose of report management is to define who receives what reports, when, and by what means. Most report management systems allow a report administrator to define user accounts and user groups and to assign particular users to particular groups. The report delivery function of a reporting system pushes reports or allows them to be pulled according to report management metadata. Reports can be delivered via an email server, via a Web site, via SOA services, or by other program-specific means.

AACSB: Information Technology

Difficulty: 2: Moderate

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-3: How Are Reports Authored, Managed, and Delivered?

Classification: Concept

31) Which of the following types of reports has the ability to sum, count, average, and perform other simple arithmetic operations on groups of data?

A) query reports

B) static reports

C) database reports

D) online analytical processing (OLAP) reports

Answer: D

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-4: How Are OLAP Reports Dynamic?

Classification: Concept

32) In an online analytical processing (OLAP) report, a data item that is to be processed is called a _____.

A) measure

B) dimension

C) cube

D) target

Answer: A

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-4: How Are OLAP Reports Dynamic?

Classification: Concept

33) Which of the following is an example of a measure in an online analytical processing (OLAP) report?

- A) sales region
- B) average cost
- C) customer location
- D) customer type

Answer: B

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-4: How Are OLAP Reports Dynamic?

Classification: Concept

34) In an online analytical processing (OLAP) report, the purchase date is an example of a(n) _____.

- A) measure
- B) attribute
- C) dimension
- D) variable

Answer: C

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-4: How Are OLAP Reports Dynamic?

Classification: Concept

35) In the case of online analytical processing (OLAP), a presentation of a measure with associated dimensions is referred to as an _____.

- A) OLAP database
- B) OLAP server
- C) OLAP service
- D) OLAP cube

Answer: D

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-4: How Are OLAP Reports Dynamic?

Classification: Concept

36) An online analytical processing (OLAP) cube can also be referred to as an _____.

- A) OLAP database
- B) OLAP report
- C) OLAP service
- D) OLAP server

Answer: B

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-4: How Are OLAP Reports Dynamic?

Classification: Concept

37) Which of the following is a drawback of online analytical processing (OLAP) reports?

- A) They have a single or no dimension.
- B) Their format is static in nature.
- C) They require a lot of computing power.
- D) They can perform arithmetic operations only on single sets of data.

Answer: C

AACSB: Information Technology

Difficulty: 2: Moderate

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-4: How Are OLAP Reports Dynamic?

Classification: Concept

38) Which of the following statements is TRUE of dimensional databases?

- A) They store millions of static online analytical processing (OLAP) reports.
- B) They are structured to support OLAP processing.
- C) They specialize in sorting functions alone.
- D) They specialize in filtering functions alone.

Answer: B

AACSB: Information Technology

Difficulty: 2: Moderate

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-4: How Are OLAP Reports Dynamic?

Classification: Concept

39) In online analytical processing (OLAP) reports, a dimension refers to an item that is to be processed in the report.

Answer: FALSE

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-4: How Are OLAP Reports Dynamic?

Classification: Concept

40) An online analytical processing (OLAP) cube is a characteristic of a measure in an OLAP report.

Answer: FALSE

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-4: How Are OLAP Reports Dynamic?

Classification: Concept

41) Users are not allowed to alter the format of online analytical processing (OLAP) reports.

Answer: FALSE

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss the key issues involved in managing the components of IT infrastructure.

Learning Obj: LO CE4-4: How Are OLAP Reports Dynamic?

Classification: Concept

42) The process of dividing the data in online analytical processing (OLAP) reports into more details is termed *drill down*.

Answer: TRUE

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-4: How Are OLAP Reports Dynamic?

Classification: Concept

43) An online analytical processing (OLAP) server reads data from an operational database, performs preliminary calculations, and stores the results of those calculations in an OLAP database.

Answer: TRUE

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-4: How Are OLAP Reports Dynamic?

Classification: Concept

44) Describe online analytical processing (OLAP).

Answer: Online analytical processing (OLAP) provides the ability to sum, count, average, and perform other simple arithmetic operations on groups of data. A remarkable characteristic of OLAP reports is that their format is dynamic. The viewer of a report can change the report's structure. An OLAP report has measures and dimensions. A measure is the data item of interest. It is the item that is to be summed or averaged or otherwise processed in the OLAP report. A dimension is a characteristic of a measure.

AACSB: Information Technology

Difficulty: 2: Moderate

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-4: How Are OLAP Reports Dynamic?

Classification: Concept

45) Reporting systems manipulate data into meaningful context using all of the following fundamental operations but _____.

- A) filtering data
- B) sorting data
- C) grouping data
- D) creating data

Answer: D

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-1: How Do Reporting Systems Enable People to Create Information?

Classification: Concept

46) Reporting metadata describes users and events only.

Answer: FALSE

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-2: What Are the Components and Characteristics of Reporting Systems?

Classification: Concept

47) Which report type does NOT change?

- A) dynamic reports
- B) query reports
- C) static reports
- D) OLAP reports

Answer: C

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-2: What Are the Components and Characteristics of Reporting Systems?

Classification: Concept

48) Every Monday, Jenny receives a _____ with information about the previous week's sales.

- A) pull report
- B) push report
- C) dashboard report
- D) microdata report

Answer: B

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-2: What Are the Components and Characteristics of Reporting Systems?

Classification: Concept

49) An OLAP report has measures and dimensions.

Answer: TRUE

AACSB: Information Technology

Difficulty: 2: Moderate

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-4: How Are OLAP Reports Dynamic?

Classification: Concept

50) Kathy received a report from the Bob, the manager over Southwest sales. She returned the report and asked for more detail. Bob took the OLAP report and proceeded to _____ for more detailed results.

- A) query the workers
- B) drill down
- C) measure the current data
- D) delete the report and start over

Answer: B

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-4: How Are OLAP Reports Dynamic?

Classification: Concept

51) One way to create meaningful data is to sort it.

Answer: TRUE

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-1: How Do Reporting Systems Enable People to Create Information?

Classification: Concept

52) When you Google a question, what type of report is generated?

- A) static report
- B) dynamic report
- C) query report
- D) online analytical processing (OLAP) report

Answer: C

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-2: What Are the Components and Characteristics of Reporting Systems?

Classification: Concept

53) For query reports, the report delivery system serves as a(n) _____.

- A) an email server
- B) report monitor
- C) intermediary between the user and the report generator
- D) authoring system

Answer: C

AACSB: Information Technology

Difficulty: 1: Easy

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-3: How Are Reports Authored, Managed, and Delivered?

Classification: Concept

54) For performance and security reasons, the OLAP server and the DBMS run on the same computer.

Answer: FALSE

AACSB: Information Technology

Difficulty: 2: Moderate

Course LO: Discuss best practices for using and managing databases.

Learning Obj: LO CE4-4: How Are OLAP Reports Dynamic?

Classification: Concept