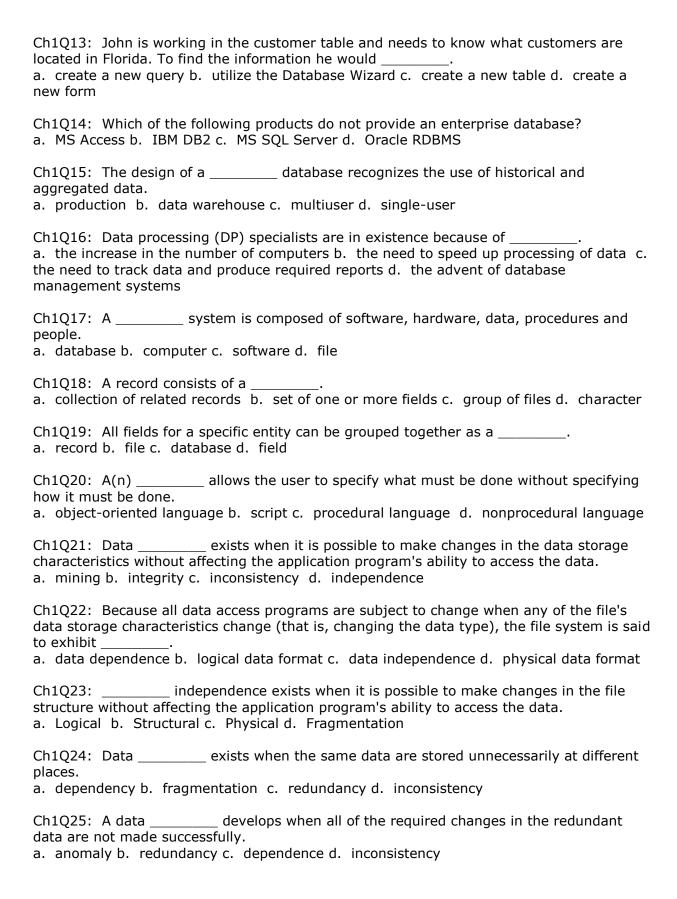
Assignment A1

Chapter1: Ch1Q1: Processed data, or ______, can be used as the foundation for decision making. a. raw data b. information c. queries d. DP Ch1Q2: Accurate, relevant, and timely ______ is the key to good decision making. a. processing b. data c. information d. relationships Ch1Q3: What is the name for data about data? a. metadata b. raw data c. superdata d. unique data Ch1Q4: Data management is a discipline that focuses on _____ a. the management of end users b. the help items to be used by end users c. the proper generation, storage, and retrieval of data d. the proper generation, storage, and retrieval of information Ch1Q5: What is a benefit of using a DBMS? a. It helps create an environment for end users to have access to more data. b. It provides full security to data using private/public key encryption. c. It provides seamless Internet access to database data. d. It creates automatic backups. Ch1Q6: The _____ receives all application requests and translates them into the complex operations required to fulfill requests. a. DBMS b. workgroup c. DB d. query Ch1Q7: An ad hoc query is a ___ a. spur of the moment question b. question that will not return any results c. prescheduled question d. pre-planned question Ch1Q8: What is the name for an answer to a query that the DBMS sends back to the application? a. query result set b. DBMS result c. data result d. question result Ch1Q9: A single-user database that runs on a personal computer is called a(n) database. a. workgroup b. desktop c. enterprise d. distributed Ch1Q10: A database that supports data distributed across several different sites is called a(n) database. a. workgroup b. enterprise c. desktop d. distributed Ch1Q11: A focuses primarily on storing data used to generate information required to make tactical or strategic decisions. a. data warehouse b. workgroup database c. production database d. distributed database Ch1Q12: Another name for a production database is a _____ database. a. development b. transactional c. data mining d. warehouse



Ch1Q26: are the people who use application programs to run the organization's daily operations.
a. End users b. Data practitioners c. Database programmers d. Managers
Ch1Q27: are considered database architects. a. Systems administrators b. Database designers c. Systems analysts and programmers d. Database administrators
Ch1Q28: Where does the DBMS store the definitions of data elements and their relationships? a. data file b. data dictionary c. data map d. index
Ch1Q29: Activities that make the database perform more efficiently in terms of storage and access speed are known as performance a. development b. upgrades c. enhancements d. tuning
Ch1Q30: The DBMS allows the user to specify what must be done, without having to specify how it is to be done, by using a(n) a. access control b. security system c. table generator d. query language
Ch1Q31: is the de facto query language and data access standard supported by the majority of DBMS vendors. a. Structured Query Language b. 4GL c. Access Query Language d. DBMS
Chapter2:
Ch2Q1: A(n) of the overall database design is required to overcome the fact that data are viewed in different ways by different people. a. analysis b. review c. footprint d. blueprint
Ch2Q2: A customer would be described by attributes such as customer last name, customer first name, customer phone, customer address, and customer credit limit. a. relationship b. model c. constraint d. entity
Ch2Q3: The basic building blocks of all data models are entities, attributes, relationships, and
a. queries b. constraints c. business rules d. multiples
Ch2Q4: What type of relationship is expressed with the phrase "Painter paints Painting"? a. M:N b. M:1 c. 1:M d. 1:1
Ch2Q5: What type of relationship is expressed with the phrase "Employee manages Store"? a. $1:M$ b. $1:1$ c. $M:N$ d. $M:1$
Ch2Q6: What type of relationship is expressed with the phrase "Student takes Class"? a. M:N b. 1:1 c. 1:M d. M:1
Ch2Q7: What is the fastest and most direct source of business rules? a. company documentation b. a database design document c. interviews with end users d. the Internet

Ch2Q8: A(n) is a brief, precise, and unambiguous description of a policy, procedure, or principle within a specific organization. a. attribute b. entity c. constraint d. business rule
Ch2Q9: As a general rule, a noun in a business rule will translate into a(n) in the model. a. constraint b. entity c. relationship d. attribute
Ch2Q10: The hierarchical database model is based on a a. lack of a child segment b. matrix c. lack of a parent segment d. tree structure
Ch2Q11: The hierarchical database model depicts a set of relationships. a. many-to-one b. one-to-many c. many-to-many d. one-to-one
Ch2Q12: A is the equivalent of a file system's record type. a. child b. parent c. segment d. root
Ch2Q13: Which data model was developed most recently? a. network model b. relational c. XML d. file system
Ch2Q14: Within the network model, the is the conceptual organization of the entire database as viewed by the database administrator. a. subschema b. data management language c. schema d. DBTG
Ch2Q15: A relational database is a collection of a. field values b. tables c. common fields d. records
Ch2Q16: A relation is a matrix consisting of a series of row and column a. intersections b. models c. links d. systems
Ch2Q17: One of the advantages of a relational data model is a. structural dependence b. easier database design c. complex database design d. conceptual complexity
Ch2Q18: For most relational database software, the query language is a. RDBMS b. 4GL c. String Query Language (SQL) d. Structured Query Language (SQL)
Ch2Q19: From an end-user perspective, any SQL-based relational database application involves three parts: a user interface, a set of tables stored in the database, and the
a. relationships between the tables b. business rules c. RDBMS d. SQL engine
Ch2Q20: Each row in the relational table is known as an entity a. relationship b. instance c. model d. attribute
Ch2Q21: How is an entity represented in an ERD? a. diamond b. triangle c. circle d. rectangle
Ch2Q22: What is the name for the most current (and most used) notation of the ERD? a. Chen model b. SQL c. Crow's Foot notation d. Date model

Ch2Q23: In the object-oriented data model (OODM), both data and their relationships are contained in a single structure known as $a(n)$ a. attribute b. object c. entity d. constraint
Ch2Q24: Classes are organized as a class a. object b. system c. hierarchy d. method
Ch2Q25: In the OO data model, a class represents a real-world action such as finding a selected PERSON's name. a. interface b. method c. inheritance d. hierarchy
Ch2Q26: The ERDM is primarily geared to business applications, while the OODM tends to focus on applications. a. educational b. personal c. non-commercial Internet d. very specialized engineering and scientific
Ch2Q27: Database models can be grouped into two categories: conceptual models and models. a. query b. physical c. logical d. implementation
Ch2Q28: XML databases have emerged to address the need to manage data within the native XML format. a. structured b. relational c. unstructured d. object-oriented
Ch2Q29: Data models were developed to a. allow DBMSs to maintain loose control over the database activities b. deposit data within a single file c. model real-world objects or events d. keep data within multiple data repositories
Ch2Q30: Which model represents the end users' view of the data environment? a. internal b. conceptual c. physical d. external
Ch2Q31: The most widely used conceptual model is the model. a. OO b. implementation c. E-R d. internal
Ch2Q32: The model presents a global view of the entire database. a. logical b. conceptual c. network d. physical
Ch2Q33: A(n) model is independent of both hardware and software. a. developmental b. conceptual c. external d. logical
Ch2Q34: Which model operates at the lowest level of abstraction? a. internal b. conceptual c. external d. physical
Ch2Q35: Which model is the representation of the database as "seen" by the DBMS?

SQL Statements for A1

MySQL Workbench and SSH Login Procedures:

- o FSU CCI MySQL Workbench Login.pdf
- Video: http://gcitr.com/vids/MySQL Workbench Login.mp4
- o FSU CCI MySQL SSH Login PC PuTTY.pdf
- o FSU CCI MySQL SSH Login MAC.pdf

Windows PuTTY Helper Videos:

- http://gcitr.com/vids/PuTTY Configuration.mp4
- http://qcitr.com/vids/PuTTY_PSFTP.mp4

(*Be sure* to review the "SQL Statements" tutorial in Database Resources, and the database at the bottom of the page. It is *highly* recommended that you check your answers by uploading the necessary tables and data, use premiere.sql and see instructions found w/in the "Assignments" area of our course, available w/in FSU's Learning Management System.)

The following SQL exercises use **premiere.sql**:

- 1. List all the contents (rows or records) of the ORDERS table.
- 2. Create an alias for an attribute name.
- 3. List the order line number, part number, number ordered, and quoted price from the ORDER LINE table in ascending order by quoted price.
- 4. Remove part number CB03 from the PART table.
- 5. Modify the city, state, and zip code of sales rep number 06.
- 6. Add two records to the part table.

For the following exercises, download, then upload gmc.sql (see Notes > Joins) to your database on the CCI server. Also, be sure to thoroughly review the Joins PDF file, as well as the course textbook.

The following SQL exercises use **gmc.sql**:

- 7. List all dealership names, vehicle types and makes for each dealership (use EQUI-JOIN, aka "old-style" join).
- 8. List all dealership names, as well as all sales reps first, last names, and their total sales for each dealership (use JOIN ON).
- 9. List how many vehicles each dealership owns (display dealer id, name, and *number* of vehicles for each dealership), use JOIN USING.
- 10. List each dealership's total sales, include dealer's name and <u>total sales</u> (captured in dealership_history table), use NATURAL JOIN.
- 11. List the <u>average</u> total sales for each sales rep in each dealership, include dealer ID, name, sales reps' id, and first and last names, use NATURAL JOIN.

Be sure to use the updated MySQL Workbench, PuTTY, and MySQL command-line login procedures above.

Mac users, once logged in, the commands in the video work exactly the same as for Windows users.

Helper Video: http://gcitr.com/vids/LIS3784 A1.mp4