

Which one of the following is the correct procedure that you follow to solve a problem?

- a. ☒ Define the problem->develop a plan->implement the plan->evaluate the result.
- b. ☐ Implement the plan->define the problem->develop a plan-> evaluate the result.
- c. ☐ Develop a plan->define the problem-> implement the plan->evaluate the result.
- d. ☐ Define the problem->implement the plan ->develop a plan ->evaluate the result.

Which one of the following is the function of database which manages simultaneous operation against the database in multiuser environment?

- a. ☐ Consistency of database.
- b. ☒ Concurrency control.
- c. ☐ Backup and recovery.
- d. ☐ Integrity of database.

Which of the following cannot be considered as a reason to migrate to a new technology? ICT DBA4 11 0811

- a. ☐ Faster Transaction speed
- b. ☐ To Increase production cost
- c. ☐ Greater Memory/Storage
- d. ☒ Better Security

Suppose you are working in Commercial Bank of Ethiopian as database administrator. So in which of the following action that an update command may not execute?

- a. ☐ Transferring money from one's account to others account.
- b. ☒ Checking account statues.
- c. ☐ Credited one's own account.
- d. ☐ Withdraw from account.

When the compiler cannot differentiate between two overloaded constructors, they are called

- a. ☐ dubious
- b. ☒ ambiguous
- c. ☐ destructed
- d. ☐ overloaded

The strategies in managing and maintaining small/medium business day to day operations does not include: -

- a. ☐ Developing effective work habits
- b. ☒ Adjusting work schedules as needed
- c. ☐ Developing work activities
- d. ☐ Developing business strategy

Which one of the following does not affect database performance (response time)?

- a. ☒ Number of concurrent users
- b. ☐ Number of columns to be retrieved from tables
- c. ☐ Database design
- d. ☐ Number of users with administrative access right

During modeling your data, Entity Relationship is applied at

- a. ☐ Schema refinement
- b. ☒ Conceptual database
- c. ☐ Applications and security
- d. ☐ Physical refinement

Level -IV Database Administration trainees always submits a report for their trainer after practical session. The trainees prepare the report in Microsoft word and finally they convert to portable document format (PDF).which of the following data conversion was used .

- a. ☐ Numeric to alphabet conversion
- b. ☐ Image conversion
- c. ☒ Database conversion
- d. ☐ File format conversion

You have run an SQL statement that asked the DBMS to display data from a table named USER_TABLES. The result include columns of data labeled "Table name ", Number of Columns "and primary key." You are looking at

- a. ☒ Metadata
- b. ☐ Indexes data
- c. ☐ report data
- d. ☐ User data

In your data model, you have two relations associated with each other by many-to-many relationship. How will this relationship be physically implemented in a relational database?

- a. ☐ By adding a third relation between the original two relations in order to create two one-to-many relationships.
- b. ☐ By dragging the primary key of the second table to the first table
- c. ☐ By adding the primary key of the first relation to the second relation as a foreign key.
- d. ☒ By adding any key of the first table to the second table as a foreign key

Which of the following statement is used to remove the privilege from the user Amir?

- a. ☐ Delete select on department from Raj
- b. ☐ Remove update on department from Amir
- c. ☐ Grant update on employee from Amir
- d. ☒ Revoke update on employee from Amir

The main Facilities offered by database management software are:

- a. ☐ Easy editing, spell check, perform calculations, library of mathematical functions, replication
- b. ☒ Ability to rotate images, copy and paste, fill scale
- c. ☐ Ability to store a large amount of data in a structured format, easy update, sort, query, production of reports.
- d. ☐ Ability to process documents for different purposes.

The Entity Relationship (E-R) Model

- a. ☐ It corresponds to row
- b. ☒ It Represents conceptual view
- c. ☐ Attributes are represented by rectangle
- d. ☐ Entities are represented by circle

A transaction completes its execution is said to be

- a. ☐ Committed
- b. ☒ Rolled
- c. ☐ Loaded
- d. ☐ Saved

The latest Database Design model is?

- a. ☐ Hierarchical
- b. ☒ Object Oriented
- c. ☐ Network
- d. ☐ Relational

If an association is maintained within single entity, the relation Degree is called ____
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- a. ☒ Unary
- b. ☐ Tertiary
- c. ☐ Many
- d. ☐ Binary

If relation R has 5 tuples and relation S has also 7 tuples, then Cartesian product of R and S will have

- a. ☐ 5+7 tuples
- b. ☐ 7-5 tuples
- c. ☐ 5/7 tuples
- d. ☒ 5X7 tuples

What is the main reason of create Index in sql server.

- a. ☐ To minimize the use of storage space in database
- b. ☐ To minimize the performance of database.
- c. ☒ To provide fast access of data from the database
- d. ☐ To normalize the database.

Database locking concept is used to solve the problem of

- a. ☒ Data integrity
- b. ☐ Transitive dependence
- c. ☐ Lost Update
- d. ☐ Functional dependence

Which one of the following is the main advantage of migrate to new technology?

- a. ☒ It helps to merge with organizations that run the same technology.
- b. ☐ It is capable of enhancement.
- c. ☐ It increases cost.
- d. ☐ It brings new solution which meets the short term plan.

If the objective of the organization is logically ordered and follows the same pattern then it is.

- a. ☐ Specificity
- b. ☒ Realistic
- c. ☐ Consistency
- d. ☐ Measurable

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If the maximum cardinality is equal to 1 in both directions of a relationship, then it is classified as:

- a. ☐ Optional
- b. ☐ One-to-many
- c. ☒ One-to-one
- d. ☐ Many-to-many

Which of the following query is able to Copy all columns from another table? ICT DBA4 06 0811

- a. ☐ CREATE TABLE old_table AS (SELECT * FROM new_table);
- b. ☐ SELECT * FROM old_table To new_table ;
- c. ☐ CREATE TABLE new_table AS (SELECT * FROM old_table);
- d. ☒ ALTER TABLE old_table RENAME TO new_table ;

Which of the field has width 8 bytes?

- a. ☐ Hyperlink
- b. ☐ Date/time
- c. ☒ Number
- d. ☐ Memo

Which one of the following is not factor that affect work place communication

- a. ☐ Lack good governance
- b. ☐ Motivation to work together
- c. ☒ Office location
- d. ☐ Personal behavior

Suppose that you have an activity which can perform a number of times repeatedly. Then which one of the following statement is more preferable?

- a. ☐ IF...ELSE statement
- b. ☒ Case statement
- c. ☐ Jump statement
- d. ☐ Loop statement

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- b. ☐ Database conversion
- c. ☐ Image conversion
- d. ☐ File format conversion

Which one of the following programming languages is used for database programming?

- a. ☐ C
- b. ☒ Java
- c. ☐ Structured query language
- d. ☐ C++

Which one of the following is not true about the Role and Function of management?

- a. ☐ staffing
- b. ☐ Planning
- c. ☐ Goods and services
- d. ☒ Communicating

While checking normalization process, the problem that doesn't exist on transitive dependency is

- a. ☐ Insertion Anomaly
- b. ☐ Deletion Anomaly
- c. ☐ Modification Anomaly
- d. ☒ Revoke Anomaly

Keeping the rules to maintain the standards and continue to improve every day in kaizen is?

- a. ☒ Sustaining
- b. ☐ Shining
- c. ☐ Straightening
- d. ☐ Sorting

The components of strategic plan that defines the organization's purpose and primary objectives.

- a. ☐ Vision statement
- b. ☐ SWOT Analysis
- c. ☒ guiding principles
- d. ☐ Mission statement

Criteria that should not be considered when evaluating or assessing requirement analysis?

- a. ☐ Correctness
- b. ☐ Speed
- c. ☒ Need assessment
- d. ☐ Consistency

Which of the following is NOT TRUE about SQL?

- a. ☐ Unable to change system security settings
- b. ☒ Query a database for information
- c. ☐ Modify a database's structure
- d. ☐ Add user permissions on databases or tables

One is the process of creating new classes from the existing class or classes with taken some properties of the base class.

- a. ☒ Inheritance
- b. ☐ Encapsulation
- c. ☐ Polymorphism
- d. ☐ Function

Data Manipulation Language (DML) is not to

- a. ☒ Create information table in the Database
- b. ☐ Insertion of new information into the Database
- c. ☐ Modification of information in the Database
- d. ☐ Deletion of information in the Database

Which of the following statement is used to remove the privilege from the user Amir?

- a. ☒ Grant update on employee from Amir
- b. ☐ Revoke update on employee from Amir
- c. ☐ Delete select on department from Raj
- d. ☐ Remove update on department from Amir

A lock that allows concurrent transactions to access different rows of the same table is known as a

- a. ☒ Field-level lock
- b. ☐ Row-level lock
- c. ☐ Database-level lock
- d. ☐ Table-level lock

ODBC stands for _____

- a. ☐ Offline database connection
- b. ☒ Open database connection
- c. ☐ None of above
- d. ☐ Oriented database connection

Which of the following is NOT true about strategic plans?

- a. ☒ Implemented within two years
- b. ☐ Apply to the entire organization
- c. ☐ Seek to position the organization in terms of its environment
- d. ☐ Establish the organizations overall goals

One is not considered as a core concept of Kaizen task

- a. ☐ Workplace management
- b. ☒ Standardization
- c. ☐ Waste elimination
- d. ☐ Focus on individual performance

Which mechanism is used to detect deadlock

- a. ☐ waits-for graph structure
- b. ☒ Rollback
- c. ☐ Commit
- d. ☐ Ghant chart

Which of the following plan can be developed by top level managers of an organization?

- a. ☐ Strategic plan
- b. ☐ Work Plan
- c. ☒ Implementation plan
- d. ☐ Tactical plan

During modeling your data, Entity Relationship is applied at

- a. ☐ Applications and security
- b. ☒ Conceptual database
- c. ☐ Physical refinement
- d. ☐ Schema refinement

One of the following is NOT a database testing mechanism?

- a. ☐ Application Testing
- b. ☒ Observation testing
- c. ☐ Code testing
- d. ☐ Stress testing

Let the vision statements of the organization be to support all customers online throughout the world in the year 2020. What has to be done to achieve this organizational objective?

- a. ☐ Establishing User manuals
- b. ☒ Implementing Web based application
- c. ☐ Installing Antivirus Software
- d. ☐ Troubleshooting Network problems

The basic tools that underlying all planning and strategic activities.

- a. ☐ Goal
- b. ☐ Target
- c. ☐ Purpose
- d. ☒ Objective

Which one of the following are the properties of modular programming?

- a. ☐ Ease of Debugging and Modifying.
- b. ☒ Allow only a single programmer in program development.
- c. ☐ Difficult to code and understand errors.
- d. ☐ It does not allow more than one Subprogram in the entire program.

One of the following is a category of SQL environments.

- a. ☐ Data dictionary
- b. ☐ Index
- c. ☐ View
- d. ☒ Catalog

Assume you are a database administrator in the department of information technology. Then if you want to generate a report about all female students, which SQL command is applicable?

- a. ☐ Create
- b. ☐ Update
- c. ☒ Retrieve
- d. ☐ Select

Database locking concept is used to solve the problem of

- a. ☐ Transitive dependence
- b. ☒ Data integrity
- c. ☐ Lost Update
- d. ☐ Functional dependence

According to relational database management, which one of the following is correct statement about foreign key?

- a. ☒ The value of foreign key must not repeat.
- b. ☐ A foreign key is the unique identifier.
- c. ☐ A FOREIGN KEY in one table points to a PRIMARY KEY in another.
- d. ☐ The value of foreign key cannot be null.

UML is stands for

- a. ☐ Universal Modeling Language
- b. ☐ United Modeling Language
- c. ☒ Unified Modeling Language
- d. ☐ Uni Modeling Language

Which of the following facilities DBMS should provide to assist data recovery?

- a. ☒ Design facility
- b. ☐ Relationship facility
- c. ☐ Checkpoint facility
- d. ☐ Constraints facility

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- c. ☐ Retrieve
- d. ☒ Select

Which one of the following diagram is show the flow of information in the system?

- a. ☒ Dataflow diagram
- b. ☐ Enhanced entity relationship diagram.
- c. ☐ Flow chart algorithm
- d. ☐ Entity relationship diagram.

Referential integrity dictates that:

- a. ☐ The value of a primary key cannot appear in a foreign key of the related table.
- b. ☒ The value of a foreign key must appear in a primary key of the related table.
- c. ☐ The value of a foreign key cannot appear in a primary key of the related table.
- d. ☐ The value of a primary key must appear in a foreign key of the related table.

Which of the following assigns the number 5 to the area variable?

- a. ☒ area = 5
- b. ☐ area 1 = 5
- c. ☐ area == 5
- d. ☐ area --> 5

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- a. ☐ File format conversion
- b. ☒ Database conversion
- c. ☐ Numeric to alphabet conversion
- d. ☐ Image conversion

Updating attributes that is neither a primary key nor foreign usually causes.

- a. ☒ Referential integrity violation.
- b. ☐ Domain integrity violation.
- c. ☐ Entity integrity violation.
- d. ☐ Key integrity violation.

A step-by-step sequence of activities or course of action (with definite start and end points) that must be followed in the same order to correctly perform a task.

- a. ☐ Operational
- b. ☐ Activities
- c. ☒ Procedures
- d. ☐ Practices

Assume you are a member of a database development team, and your team developed a database system for a company which has thousands of customers whose information is updated rapidly. After six months the company database faces a problem in its performance. What is your recommendation for this company?

- a. ☒ The company should tune the memory, I/O to improve performance
- b. ☐ The company should update all customer's information to improve performance
- c. ☐ The company should delete all customer's information to improve performance
- d. ☐ The company should ask the team to develop new database system to improve performance

Which type of file contains data and database objects such as tables and indexes?

- a. ☐ File groups
- b. ☐ Data files
- c. ☒ Log files
- d. ☐ Binary files

A laboratory testing procedure in which one test is done simultaneously on multiple specimens.

- a. ☐ Scheduling
- b. ☒ Batch test
- c. ☐ Test case
- d. ☐ Test scripting

Which of the following is true concerning triggers?

- a. ☐ They cannot cascade (cause another trigger to fire).
- b. ☐ They execute against only some applications that access a database.
- c. ☐ They have an event, condition, and action.
- d. ☒ You do not create them with SQL.

Which of the following is the first step in designing and developing a new system?

- a. ☐ System Testing
- b. ☒ Requirement Analysis
- c. ☐ System Design
- d. ☐ System Implementation

Which of the following statements is true concerning routines and triggers?

- a. ☐ Both run automatically.
- b. ☒ Both consist of procedural code.
- c. ☐ Both have to be called to operate.
- d. ☐ Both are stored in the database.

Mr. Abebe is one of database worker in your organization and he can change his Id_Number from org123 to org12 but he could not change his salary. Then which one of the following is a possible reason for Abebe?

- a. ☐ He may not have update privilege on Id_Number column while he has on salary column
- b. ☒ He may not have update privilege on salary column while he has on Id_Number column
- c. ☐ He may not have update privilege for the database as a whole.
- d. ☐ He may not have update privilege for the entire column of that table.

Effective teams operate in a manner that is supported by:

- a. ☐ Decision making by consensus
- b. ☐ Decision making by Costumer
- c. ☐ Decision making by Owner
- d. ☒ Decision making by Leader

The characteristic of being able to assign a different meaning to a particular symbol or "operator" in different contexts (having multiple forms) in object oriented programming is ____ ICT DBA4 05 0811

- a. ☒ Polymorphism
- b. ☐ Encapsulation
- c. ☐ Inheritance
- d. ☐ Abstraction

Miss. Momina is a database Architect in Civil Service College. As a database system profession the responsibility of Momina is.

- a. ☐ Design the conceptual model of database.
- b. ☐ Deny the granted database users.
- c. ☐ Mange the overall database system.
- d. ☒ Grant the revoked database user.

Structured Query Language can be defined as-----.

- a. ☒ Un Specify syntax/semantics for data definition and manipulation.
- b. ☐ Define data un structures
- c. ☐ Standard for relational database management systems
- d. ☐ Disable portability

Server level role to manage logins and their properties is ____ ICT DBA4 09 0811

- a. ☐ Securityadmin
- b. ☐ Processadmin
- c. ☒ Sysadmin
- d. ☐ Serveradmin

Which one of the following programming language has both procedural and object oriented features?

- a. ☐ Java
- b. ☒ C++
- c. ☐ C
- d. ☐ Structured query language

If you want to develop patient record system for Blue Lion Hospital and if the hospital primary objective is reliability and scalability. Based on this information the architecture of the hospital database should include.

- a. ☐ Independence of data and programs.
- b. ☐ Dependence of data and programs.
- c. ☒ Complex system design.
- d. ☐ Complex programming facility.

The _____ scheme uses a page table containing pointers to all pages; the page table itself and all updated pages are copied to a new location.

- a. ☐ Shadow Paging
- b. ☐ Delete log records
- c. ☒ Update log records
- d. ☐ Shadow copy

Which one is incorrect about concurrency problems

- a. ☒ Eliminate redundant data
- b. ☐ The uncommitted dependency problem
- c. ☐ The inconsistent analysis problem.
- d. ☐ The lost update problem.

You need to bring data from an Access database into a database in SQL Server. You want to perform the task as simply as possible. Which one of the following options best meets the requirements?

- a. ☐ Copy Database Wizard
- b. ☒ Import and Export Wizard
- c. ☐ Business Intelligence Development Studio
- d. ☐ BCP

The database language that allows you to access or maintain data In A Database

- a. ☐ DML
- b. ☐ DMM
- c. ☐ DCL
- d. ☒ DDL

One of the following does not force a company to migrate to new technologies?

- a. ☐ The need for support from vendors
- b. ☐ Competitive advantages
- c. ☒ Data growth
- d. ☐ Data redundancy

The ability of database system to be enlarged to accommodate the growing amount of work.

- a. ☒ Database scalability.
- b. ☐ Database consistency.
- c. ☐ Database integrity.
- d. ☐ Database functionality.

Which one of the following is the main advantage of migrate to new technology?

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The components of strategic plan that defines the organization's purpose and primary objectives.

- a. ☐ Vision statement
- b. ☐ SWOT Analysis
- c. ☒ guiding principles
- d. ☐ Mission statement

One of the following is NOT related to database performance

- a. ☐ SQL tuning
- b. ☒ Hardware optimization
- c. ☐ Partitioning of tables
- d. ☐ Taking Backup

Which of the following is an unary operation?

- a. ☒ Selection operation
- b. ☐ Projection operation
- c. ☐ Generalized selection
- d. ☐ Primitive operation

Which of the following is an unary operation?

- a. ☒ Selection operation
- b. ☐ Projection operation
- c. ☐ Generalized selection
- d. ☐ Primitive operation

How do you prevent system privileges deletion and updating authority on PRICE and YEAR column of the CATALOGUE table from user Girma

- a. ☒ REVOKE DELETE, UPDATE (price,year) ON catalogue From girma
- b. ☐ DENY DELETE, UPDATE (price,year) ON catalogue From girma
- c. ☐ GRANT DELETE, UPDATE (price,year) ON catalogue From girma
- d. ☐ ALLOW DELETE, UPDATE (price,year) ON catalogue From girma

Which one true about the guidelines to create a data model?

- a. ☐ No repeat the steps to optimize the model
- b. ☐ Identify the different data components- consider raw and processed data.
- c. ☒ Identify the relationships between the similar data components.
- d. ☐ Test the model with similar scenarios

A type of query that is placed within a WHERE or HAVING clause of another query is called

- a. ☐ Super query
- b. ☐ Sub query
- c. ☒ Master query
- d. ☐ Multi-query

If you are the trainer in your college then which one of the following method is better to deliver Information technology to your trainee?

- a. ☐ Providing each learning objective using both practically and theoretically.
- b. ☐ Providing each learning objective using both only theoretical session
- c. ☒ Providing each learning objective using older version of software.
- d. ☐ Providing each learning objective using only practical session.

A method of combining the data and functions inside a class.

- a. ☐ Class
- b. ☒ Methods
- c. ☐ Encapsulation
- d. ☐ Polymorphism

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- b. ☐ Import and Export Wizard
- c. ☐ Copy Database Wizard
- d. ☐ Create form design Wizard

The complete picture of data stored in database is known as

- a. ☐ Column
- b. ☐ DBMS
- c. ☐ Schema
- d. ☒ System flowchart

Long term plan that do not include a specific target date is? ICT DBA4 01 0811

- a. ☐ Tactical plan
- b. ☐ Operation plan
- c. ☐ Short term plan
- d. ☒ Strategic plan

Let say you are going to produce design document for the design part of your organization. Which one of the following is the correct order?

- a. ☐ Introduction -> Proposed Software Structure -> Design Goal ->Data Model
- b. ☐ Introduction -> Design Goal -> Proposed Software Structure -> Data Model
- c. ☒ Introduction -> Proposed Software Structure ->Data Model-> Design Goal
posed Software Structure
- d. ☐ Introduction-> Data Model -> Design Goal -> Proposed Software Structure

A database problem occurs when one transaction wants to read more than on object at same time

- a. ☐ Transaction conflict
- b. ☐ dirty read
- c. ☐ Recover
- d. ☒ Deadlock

Which of the following is a securable object in a database schema?

- a. ☒ View
- b. ☐ Service
- c. ☐ Database
- d. ☐ Database User

Which of the following is a scalability feature in SQL Server Enterprise Edition?

- a. ☐ Publishing
- b. ☐ Partitioning
- c. ☒ Data Mining Queries
- d. ☐ Binary and compressed XML transport

The Entity Relationship (E-R) Model

- a. ☒ Attributes are represented by rectangle
- b. ☐ Entities are represented by circle
- c. ☐ It Represents conceptual view
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To change the existing system of a given organization, the first step should be ____ ICT DBA4 03 0811

- a. ☐ Change Analysis
- b. ☒ Change Implementation
- c. ☐ Change Approval
- d. ☐ Change Request

Mr Abebe is one of database worker in your organization and he want to change his Id_Number from org123 to org12 but he did not do it. Why Abebe can't change?

- a. ☐ He may not have drop previlage
- b. ☐ He may not have insert previlage
- c. ☐ He may not have select privilege
- d. ☒ He may not have update previlage

Let the vision statements of the organization be to support all customers online throughout the world in the year 2020. What has to be done to achieve this organizational objective?

- a. ☒ Implementing Web based application
- b. ☐ Installing Antivirus Software
- c. ☐ Troubleshooting Network problems
- d. ☐ Establishing User manuals

Which of the following is TRUE about NULL value?

- a. ☐ is equivalent to blank
- b. ☒ is not considered to be greater than, less than, or equivalent to any other value
- c. ☐ is equivalent to zero
- d. ☐ is equivalent to space

Which of the following query is able to Copy all columns from another table? ICT DBA4 06 0811

- a. ☐ CREATE TABLE old_table AS (SELECT * FROM new_table);
- b. ☐ CREATE TABLE new_table AS (SELECT * FROM old_table);
- c. ☐ ALTER TABLE old_table RENAME TO new_table ;
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The behavior of effective communication skill is?

- a. ☐ Lack of attention
- b. ☐ Focus fully on the speaker
- c. ☒ Difference in Perception
- d. ☐ Inconsistence body language

Long term plan that do not include a specific target date is? ICT DBA4 01 0811

- a. ☐ Tactical plan
- b. ☐ Operation plan
- c. ☐ Short term plan
- d. ☒ Strategic plan

The EMP table has these columns: ENAME ,SALARY ,HIRE_DATE , and the Management wants a list of names of employees who have been with the company for more than five years. the SQL statement that displays the required results?

- a. ☐ SELECT ENAME FROM EMP WHERE SYSDATE-HIRE_DATE > 5;
- b. ☒ SELECT ENAME FROM EMP WHERE (SYSDATE-HIRE_DATE)/365 > 5;
- c. ☐ SELECT ENAME FROM EMP WHERE HIRE_DATE-SYSDATE > 5;
- d. ☐ SELECT ENAME FROM EMP WHERE (SYSDATE-HIRE_DATE)* 365 > 5;

In _____ of Oracle, the database administrator creates a user account in the database for each user who needs access.

- a. ☒ Internal Authentication
- b. ☐ Database Authentication
- c. ☐ External Authentication
- d. ☐ Operating System Authentication

Which of the following is not among the three pillars of Kaizen? ICT DBA4 16 1012

House Keeping
Waste Elimination
Standardization
Team Work

- a. ☐ Waste Elimination
- b. ☒ Standardization
- c. ☐ House Keeping
- d. ☐ Team Work

Information of an organization can gathered by

- a. ☐ Imagining business forms
- b. ☐ Interviewing end users
- c. ☒ Stealing the organizations document
- d. ☐ Guessing business rules

A means to achieve quality standards except ICT DBA4 12 0811

- a. ☐ Education and training
- b. ☐ Team work
- c. ☐ Setting multiple objectives.
- d. ☒ Scientific approach

The issue that applies only to a multi-user system is?

- a. ☐ Media Recovery
- b. ☒ Concurrency
- c. ☐ System Recovery
- d. ☐ Durability

In database development life cycle, the process testing a system module by module is.

- a. ☒ System test
- b. ☐ Acceptance test
- c. ☐ Unit test
- d. ☐ Integration test

If you are the trainer in your college then which one of the following method is better to deliver Information technology to your trainee?

- a. ☐ Providing each learning objective using both only theoretical session
- b. ☒ Providing each learning objective using older version of software.
- c. ☐ Providing each learning objective using both practically and theoretically.
- d. ☐ Providing each learning objective using only practical session.

A database problem occurs when one transaction wants to read more than on object at same time

- a. ☐ Transaction conflict
- b. ☐ Recover
- c. ☐ Deadlock
- d. ☒ dirty read

One of the following is a category of SQL environments.

- a. ☐ View
- b. ☐ Index
- c. ☒ Catalog
- d. ☐ Data dictionary

The database language that allows you to access or maintain data In A Database

- a. ☐ DMM
- b. ☐ DCL
- c. ☒ DML
- d. ☐ DDL

During strength, weakness, opportunity and threat (SWOT) analysis the advantages that the project exploits are.

- a. ☒ Weakness
- b. ☐ Strength
- c. ☐ Threat
- d. ☐ Opportunity

It defines how and where data are organized in physical data storage.

- a. ☐ Internal Schema
- b. ☒ Conceptual Schema
- c. ☐ External and Conceptual Schema
- d. ☐ External Schema

One of the following is not the task applied when converting data

- a. ☒ Documenting data rejection and errant behavior of data
- b. ☐ Backing-up data before conversion
- c. ☐ Modifying and formatting data
- d. ☐ Converting support documents

You need to produce a report for mailing labels for customers. The mailing label must have only the customer name and address. The CUSTOMERS table has these columns, ID ,NAME,ADDRESS,PHONE ,the SELECT statement to accomplishes this task?

- a. ☐ SELECT cust_name, cust_address FROM customers;
- b. ☐ SELECT*FROM customers;
- c. ☐ SELECT name, address FROM customers;
- d. ☒ SELECT id, name, address, phone FROM customers;

Which one is an example of resource allocator role of the manager?

- a. ☐ Acknowledging mail
- b. ☐ Holding informational meetings
- c. ☒ Reading periodicals and reports
- d. ☐ Scheduling

Structured Query Language can be defined as-----.

- a. ☒ Standard for relational database management systems
- b. ☐ Define data un structures
- c. ☐ Disable portability
- d. ☐ Un Specify syntax/semantics for data definition and manipulation.

Running out of space on the drive used to store backups. All of the servers use the same network location. What can you do to save space with your backups while maintaining the same number of backups?

- a. ☐ Use a third-party tool
- b. ☒ Use full backups
- c. ☐ Use data compression
- d. ☐ Use compressed backups

Assume you are a database administrator in the department of information technology. Then if you want to generate a report about all female students, which SQL command is applicable?

- a. ☒ Select
- b. ☐ Create
- c. ☐ Retrieve
- d. ☐ Update

Which is a reserved word in the Java programming language?

- a. ☐ Subclasses
- b. ☐ Reference
- c. ☒ method
- d. ☐ Native

Which of the following is the first step in designing and developing a new system?

- a. ☐ Requirement Analysis
- b. ☒ System Testing
- c. ☐ System Design
- d. ☐ System Implementation

Which one of the following is not important in order to increase the performance of the database?

- a. ☐ Use more powerful cpu's
- b. ☐ Use high speed connection between database components
- c. ☒ Use less memory
- d. ☐ Use more RAM capacity

Which one of the following is the function of database which manages simultaneous operation against the database in multiuser environment?

- a. ☐ Consistency of database.
- b. ☐ Backup and recovery.
- c. ☐ Integrity of database.
- d. ☒ Concurrency control.

The strategies in managing and maintaining small/medium business day to day operations does not include: -

- a. ☐ Developing effective work habits
- b. ☐ Developing work activities
- c. ☐ Adjusting work schedules as needed
- d. ☒ Developing business strategy

Create table Manager(ID numeric,Name varchar(20),budget numeric,Details varchar(30));
In order to ensure that the value of budget is non-negative which of the following should be used?

- a. ☐ Alter (budget<0)
- b. ☐ Alter (budget>0)
- c. ☒ Check (budget>0)
- d. ☐ Check (budget<0)

Which one is defining a kind of data will store in variables and also defines memory storage of data.

- a. ☐ Size of array
- b. ☐ Data type
- c. ☒ Variable
- d. ☐ Object

If an association is maintained within single entity, the relation Degree is called ____ ICT DBA4 07 0811

- a. ☐ Unary
- b. ☐ Binary
- c. ☐ Tertiary
- d. ☐ Many

Miss Lemlem is a database programmer at Civil Service College. As a database system profession the responsibility of Lemlem is.

- a. ☐ Design the conceptual model of database.
- b. ☐ Coding and implementing the application programs.
- c. ☐ Deny the granted database users.
- d. ☐ Mange the overall database system.

The ability of database system to be enlarged to accommodate the growing amount of work.

- a. ☐ Database integrity.
- b. ☐ Database functionality.
- c. ☒ Database scalability.
- d. ☐ Database consistency.

Which of the following is a scalability feature in SQL Server Enterprise Edition?

- a. ☐ Partitioning
- b. ☐ Publishing
- c. ☐ Data Mining Queries
- d. ☒ Binary and compressed XML transport

When you change the Authentication Mode, what action do you need to perform before the mode change takes effect?

- a. ☐ Restart SQL Server Agent.
- b. ☐ Restart the SQL Server Instance.
- c. ☒ Lock out all the database users.
- d. ☐ Reboot the server operating system.

Which of the following is considered as SQL Server-level principal?

- a. ☐ Application Role
- b. ☒ SQL Server Login
- c. ☐ Windows Domain Login
- d. ☐ SQL Server

You are assigned to lead a small team in your company that manages database. Identify the wrong statement in leading the team

- a. ☒ Favor some individuals in your team
- b. ☐ Possess necessary leadership skill
- c. ☐ Understand the team role
- d. ☐ Assign responsibilities to team members

A means to achieve quality standards except ICT DBA4 12 0811

- a. ☒ Education and training
- b. ☐ Team work
- c. ☐ Setting multiple objectives.
- d. ☐ Scientific approach

You are the administrator of a SQL Server 2000 computer that contains a database. Users report that queries to this database respond slowly. You use system monitor to examine the subsystems on your server and receive the results shown in the exhibit.

You need to modify the server to accelerate query response time. What should you do?

- a. ☐ Add an additional processor
- b. ☐ Upgrade to a faster disk subsystem.
- c. ☐ Add a faster network adapter.
- d. ☒ Increase the amount of RAM.

How do you prevent system privileges deletion and updating authority on PRICE and YEAR column of the CATALOGUE table from user Girma

- a. ☐ ALLOW DELETE, UPDATE (price,year) ON catalogue From girma
- b. ☐ GRANT DELETE, UPDATE (price,year) ON catalogue From girma
- c. ☐ DENY DELETE, UPDATE (price,year) ON catalogue From girma
- d. ☒ REVOKE DELETE, UPDATE (price,year) ON catalogue From girma

There is a database called Pubs having tables Authors(Au_fname, Au_lname, City) and Publishers(Pub_name, City). The report generated by the following query is:

```
USE Pubs
SELECT a.Au_fname, a.Au_lname, p.Pub_name
FROM Authors a LEFT OUTER JOIN Publishers p
ON a.City = p.City
ORDER BY p.Pub_name ASC, a.Au_lname ASC, a.Au_fname ASC
```

- a. ☐ Lists the names of all authors and publishers
- b. ☐ Lists only those publishers that are located in the same cities as the authors
- c. ☐ Lists the name of every author in the Authors table.
- d. ☒ Retrieves the name of every author in the Authors table and the names of any publishers that are located in the same cities as the authors

Which Symbol can be used to represent functional dependency?

- a. ☐ Ellipse
- b. ☒ An arrow
- c. ☐ Diamond
- d. ☐ Rectangle

Which one of the following activity is done during requirement gathering and analysis?

- a. ☐ Starting the actual code.
- b. ☐ Identify system user.
- c. ☐ Testing the system against the requirements.
- d. ☒ Prepare the schema of the database

The language associated with a database management system that is employed by end users and programmers to alter data values in the database is the:

- a. ☐ Data presentation language.
- b. ☐ Data translation language.
- c. ☒ Data definition language.
- d. ☐ Data manipulation language.

Which of the following option is use to retrieval of data?

- a. ☒ Query
- b. ☐ Linked list
- c. ☐ Stack
- d. ☐ Data Structure

It is not an activity to establish quality standard specifications to maintain and improve quality at work.

- a. ☒ Providing services for requested department
- b. ☐ Identifying quality requirements
- c. ☐ Monitoring the effectiveness of quality assurance procedures
- d. ☐ Developing an agreed upon specifications

Which of the following creates a copy of only the parts of the database that have changed since the last full database backup? ICT DBA4 09 0811

- a. ☐ Transaction Log backup
- b. ☒ Differential backup
- c. ☐ File group backup
- d. ☐ Full Database backup

You are assigned to lead a small team in your company that manages database. Identify the wrong statement in leading the team

- a. ☒ Favor some individuals in your team
- b. ☐ Possess necessary leadership skill
- c. ☐ Understand the team role
- d. ☐ Assign responsibilities to team members

Which of the following is a basic form of grant statement?

- a. ☐ Grant 'privilege list' to 'user/role list'
- b. ☐ Grant 'privilege list' on 'relation name or view name' on 'user/role list';
- c. ☒ Grant 'privilege list' on 'relation name or view name' to 'user/role list';
- d. ☐ Grant 'privilege list' on 'user/role list' to 'relation name or view name';

The strategies in managing and maintaining small/medium business day to day operations does not include: -

- a. ☐ Developing work activities
- b. ☐ Developing effective work habits
- c. ☐ Adjusting work schedules as needed
- d. ☒ Developing business strategy

Determining business objectives and how to reach to them is? ICT DBA4 15 0811

- a. ☐ Organizing
- b. ☐ Directing
- c. ☐ Controlling
- d. ☒ Planning

If you are the trainer in your college then which one of the following method is better to deliver Information technology to your trainee?

- a. ☐ Providing each learning objective using only practical session.
- b. ☒ Providing each learning objective using both practically and theoretically.
- c. ☐ Providing each learning objective using both only theoretical session
- d. ☐ Providing each learning objective using older version of software.

Which one is an example of resource allocator role of the manager?

- a. ☐ Scheduling
- b. ☒ Holding informational meetings
- c. ☐ Acknowledging mail
- d. ☐ Reading periodicals and reports

Server level role to manage logins and their properties is ____ ICT DBA4 09 0811

- a. ☐ Sysadmin
- b. ☐ Processadmin
- c. ☐ Serveradmin
- d. ☒ Securityadmin

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Which one of the following is an open source DBMS tool?

- a. ☒ My sql
- b. ☐ Microsoft access
- c. ☐ Oracle
- d. ☐ Microsoft sql server

$A \sqsubseteq B$ and $B \sqsubseteq C$ therefore $A \sqsubseteq C$. This property of Normalization implies ____ ICT DBA4 04 0811

- a. ☒ Functional Dependency
- b. ☐ Multi-Valued Dependency
- c. ☐ Insertion Anomalies
- d. ☐ Transitive Dependency

When you change the Authentication Mode, what action do you need to perform before the mode change takes effect?

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Which one is defining a kind of data will store in variables and also defines memory storage of data.

- a. ☐ Size of array
- b. ☐ Data type
- c. ☒ Variable
- d. ☐ Object

Which of the following is TRUE about NULL value?

- a. ☐ is equivalent to blank
- b. ☒ is not considered to be greater than, less than, or equivalent to any other value
- c. ☐ is equivalent to zero
- d. ☐ is equivalent to space

Which of the following query is able to Copy all columns from another table? ICT DBA4 06 0811

- a. ☐ CREATE TABLE old_table AS (SELECT * FROM new_table);
- b. ☐ CREATE TABLE new_table AS (SELECT * FROM old_table);
- c. ☐ ALTER TABLE old_table RENAME TO new_table ;
- d. ☒ SELECT * FROM old_table To new_table ;

The behavior of effective communication skill is?

- a. ☐ Lack of attention
- b. ☐ Focus fully on the speaker
- c. ☒ Difference in Perception
- d. ☐ Inconsistence body language

Long term plan that do not include a specific target date is? ICT DBA4 01 0811

- a. ☐ Tactical plan
- b. ☐ Operation plan
- c. ☐ Short term plan
- d. ☒ Strategic plan

One of the following is NOT related to database performance

- a. ☐ SQL tuning
- b. ☒ Hardware optimization
- c. ☐ Partitioning of tables
- d. ☐ Taking Backup

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- d. ☐ Providing each learning objective using only practical session.

The complete picture of data stored in database is known as

- a. ☐ Column
- b. ☐ DBMS
- c. ☐ Schema
- d. ☒ System flowchart

To change the existing system of a given organization, the first step should be ____ ICT DBA4 03 0811

- a. ☐ Change Analysis
- b. ☒ Change Implementation
- c. ☐ Change Approval
- d. ☐ Change Request

Mr Abebe is one of database worker in your organization and he want to change his Id_Number from org123 to org12 but he did not do it. Why Abebe can't change?

- a. ☐ He may not have drop previlage
- b. ☐ He may not have insert previlage
- c. ☐ He may not have select privilege
- d. ☒ He may not have update previlage