

Quiz 1

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INSTRUCTIONS

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EXAM QUESTIONS

15

Information Technology

Following scenario and select the correct answer for the following questions.

A pharmaceutical company plans to conduct a double-blind test of a new drug. They will involve about 20 doctors and about 400 patients. The company will need to track patient information from their first screening through each of their interviews. Doctors need to be able to see their own patient's information, but not other doctor's patients. Patients should be able to see their own medical profile, the doctor's notes, and nothing else. Only the two researchers should be able to see everything. At present they are in discussion of the approach they should use for data storage. They have considered two options as: a Shared Excel sheet over the Cloud Storage and Database approach?

1. Do you think it is necessary for them to go for the Database approach? Choose...
2. What is the main advantage? (if the answer for above is Yes) or the disadvantage? (if the answer for above is No) the database approach would have over the other approach? Choose...
3. If the database approach were used, where would you find the names of the data items (such as Doctors, Patients...) stored and any connections between the data items, in the Three-schema architecture? Choose...
4. If the database approach were used, and if Database Administrator identifies the need to encrypt some of the sensitive data related to patients, he will be able to do the change without effecting the upper levels of the Three-schema architecture. This property is known as:

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Question 2

Not yet answered

Marked out of 2.00

Flag question

A possible example for a "Derived attribute" would be,

Select one:

- a. Birth date
- b. Name
- c. Phone number
- d. Age



Question 1

Not yet answered

Marked out of 4.00

 Flag question

Consider the following Employee table and the given query.

eno	NIC	ename	address	dnumber
100	901250087V	Smith,John B	731 Fondren, H...	5
101	895290452V	Wrong, Franklin...	638 Voss, Houst...	5
102	923859070V	Zelaya, Alicia J.	33321 Castle, S...	4
104	904850045V	Narayan, Reme...	975 Fire Oak, H...	5
105	889950600V	English, Joyce A.	5631 Rice, Hous...	1
106	915850123V	Jabbar, Ahama...	980 Dallas, Hou...	1

SELECT ename FROM Employee

WHERE ename LIKE'%me%';

Which names does this query return?

Select one or more:

- a. None of the given names
- b. Jabbar, Ahamaad V.
- c. Narayan, Remesh K.
- d. Zelaya, Alicia J.
- e. Wrong, Franklin T.

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INSTRUCTIONS

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Question 1
Not yet answered
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Flag question

_____ operator is used to compare a value to a list of literals values that have been specified.

Select one:

- A. IN
- B. BETWEEN
- C. COMPARE
- D. Like



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A "Quaternary Relationship" is a relationship with,

Select one:

- a. Three participating entities
- b. None of the above
- c. Two participating entities
- d. Four participating entities

**Question 2**

Not yet answered

Marked out of
2.00[Flag question](#)

The clause in SQL that specifies that the query result should be sorted in ascending or descending order based on the values of one or more columns is

Select one:

- A. View
- B. Group by
- C. Having
- D. Order by

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A "Descriptive Attribute" can be explained as

Select one:

a. An attribute which records information about the relationship

b. An attribute containing multiple values

c. An attribute describing an entity

d. An attribute which is derived by using another entity

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Question 3

Not yet answered

Marked out of
4.00 Flag question

Which of the following are true related to the following Relationship?



Select one or more:

- a. The Degree of the relationship is 3-
- b. Cardinality ratio of the relationship is 1:M from Course to Student
- c. This is not a Binary relationship
- d. An entity in the Student entity-set can make only one relationship instance with the other side
- e. An entity in the Course entity-set can make only one relationship instance with the other side



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Question 4

Not yet answered
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2.00

Flag question

A "Quaternary Relationship" is a relationship with,

Select one:

- a. Two participating entities
- b. Three participating entities
- c. Four participating entities
- d. None of the above

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INSTRUCTIONS

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Which of the following is/are TRUE with respect to Expert Systems?

Select one or more:

- a. Kind of enterprise systems
- b. Based on Artificial Intelligence technologies
- c. Represent the knowledge and decision-making skills of specialists
- d. Used to manage the administrative functions in an office environment
- e. Computer systems that emulate the decision-making ability of a human expert

Question 1
Not yet answered
Marked out of
7.00
 Flag question

Analyze the following scenario and select the correct answer for the following questions.

A Pharmaceutical company plans to conduct a double-blind test of a new drug. They will involve about 20 doctors and about 400 patients. The company will need to track patient information from their first screening through each of their interviews. Doctors need to be able to see their own patient's information, but not other doctor's patients. Patients should be able to see their own medical profile, the doctor's notes, and nothing else. Only the two researchers should be able to see everything. At present they are on discussion of the approach they should use for data storage. They have considered two options as; a Shared Excel sheet over the Cloud Storage and Database approach.

1. Do you think it is necessary for them to go for the Database approach? Yes
2. What is the main advantage (if the answer for above is Yes) or the disadvantage (if the answer for above is No) the database approach would have over the other approach?
3. If the database approach were used, where would you find the names of the data items (such as Doctors, Patients...) stored and any connections between the data items, in the Three-schema architecture of the DBMS?
4. If the database approach were used, and if Database Administrator identifies the need to encrypt some of the sensitive data related to patients, he will be able to do the change without effecting the upper levels of the Three-schema architecture. This property is known as

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g question

Which of the following is/are TRUE with respect to Expert Systems?

Select one or more:

- a. Used to manage the administrative functions in an office environment
- b. Computer systems that emulate the decision-making ability of a human expert
- c. Kind of enterprise systems
- d. Represent the knowledge and decision-making skills of specialists
- e. Based on Artificial Intelligence technologies

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Which of the following is/are TRUE with respect to Expert Systems?

Select one or more:

- a. Kind of enterprise systems
- b. Based on Artificial Intelligence technologies
- c. Represent the knowledge and decision-making skills of specialists
- d. Used to manage the administrative functions in an office environment
- e. Computer systems that emulate the decision-making ability of a human expert

Section 4
0 per answered
marked out of
Flag question

Read the following paragraph and answer the questions below.

Library information system at SLIIT provides the facility to borrow books for studies. Library catalogue is constantly updated to accommodate resource materials relating to new developments in core teaching areas. The newly added material can be a book, a standard, a journal, a CD or an article. Member registration needs students to deposit refundable amount of Rs.500/- It is not required for the staff members. Borrowing involves, selecting the desired material from the library by the member and library assistant recording it against the student ID or the employee ID. Borrowing process automatically generates the returning date relevant to the borrowing transaction. Returning involves, submitting the material on the returning date by the student/staff member, calculating fines if any and recording the returning transaction in the system by the library assistant. At the end of the day, librarian generates the daily transaction report from the system.

Select the correct answer for the following questions, using the drop-down menu.

1. Inputs for the member registration process are,

- a) Student ID/employee ID
- b) Book title
- c) Book ID
- d) Returning date
- e) Deposit amount

2. Output of the borrowing process is,

- a) Student ID/employee ID
- b) Book title
- c) Book ID
- d) Returning date
- e) Deposit amount

3. Which of the following statement/s is/are related to the processing function of the SLIIT library system?

- a) Periodically, the system reports on the books available, books overdue and membership
- b) Calculates fines for overdue books
- c) Checks for valid membership
- d) Refunds the deposit amount after completing the degree
- e) Captures student ID and Book ID before issuing the book to the student
- f) Captures employee ID and book ID before returning the book by the staff member

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INSTRUCTIONS

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1. Inputs for the member registration process are,

Choose... ▾

2. Output of the borrowing process is,

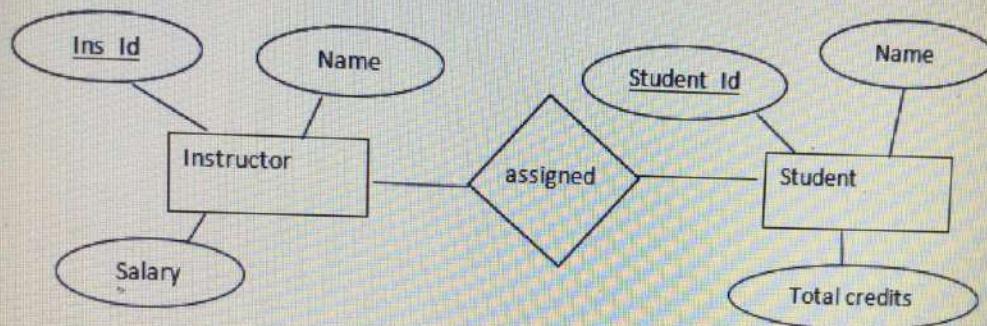
Choose... ▾

3. Which of the following statement/s is/are related to the processing function of the SLIIT library system?

Choose... ▾

answered
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question

Identify correct cardinalities for following ER diagram, based on the following scenario.
'There are multiple instructors assigned to each student. An instructor will be allocated to many students.'



Select one:

- a. 1:M
- b. M:N
- c. 1:1 or 1:M
- d. 1:1



Question 5

Not yet answered

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4.00

Flag question

Which of the following are true related to the following Relationship?

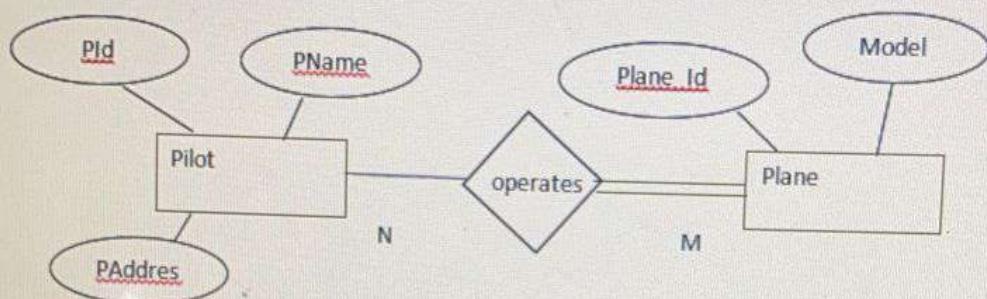


Select one or more:

- a. The Degree of the relationship is 3
- b. An entity in the Course entity-set can make only one relationship instance with the other side
- c. This is not a Binary relationship
- d. An entity in the Student entity-set can make only one relationship instance with the other side
- e. Cardinality ratio of the relationship is 1:M from Course to Student

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Which of the following statement(s) is/are true about the given ER diagram?



Select one or more:

- a. The Degree of the relationship is 2
- b. The given realtionship is a Ternary relationship
- c. pName and Model are two Entities
- d. A pilot is allowed to operate many planes
- e. A plane can be operated by many pilots





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g question

The HAVING clause does which of the following?

Select one:

- A. Acts EXACTLY like a WHERE clause.
- B. Acts like a WHERE clause but is used for rows rather than columns.
- C. Acts like a WHERE clause but is used for columns rather than groups.
- D. Acts like a WHERE clause but is used for groups rather than rows.

Question 2
Not yet answered
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Flag question

Read the following paragraph and answer the questions below.

Library information system at SLIIT provides the facility to borrow books for studies. Library catalogue is constantly updated to accommodate resource materials relating to new developments in core teaching areas. The newly added material can be a book, a standard, a journal, a CD or an article. Member registration needs students to deposit refundable amount of Rs.5000. It is not required for the staff members. Borrowing involves, selecting the desired material from the library by the member and library assistant recording it against the student ID or the employee ID. Borrowing process automatically generates the returning date relevant to the borrowing transaction. Returning involves, submitting the material on the returning date by the student/staff member, calculating fines if any and recording the returning transaction in the system by the library assistant. At the end of the day, librarian generates the daily transaction report from the system.

Select the correct answer for the following questions, using the drop-down menu.

1. Inputs for the member registration process are,

- a) Student ID/employee ID
- b) Book title
- c) Book ID
- d) Returning date
- e) Deposit amount

2. Output of the borrowing process is,

- a) Student ID/employee ID
- b) Book title
- c) Book ID
- d) Returning date
- e) Deposit amount

3. Which of the following statement/s is/are related to the processing function of the SLIIT library system?

- a) Periodically, the system reports on the books available, books overdue and membership
- b) Calculates fines for overdue books
- c) Checks for valid membership
- d) Refunds the deposit amount after completing the degree
- e) Captures student ID and Book ID before issuing the book to the student
- f) Captures employee ID and Book ID before returning the book by the staff member

1. Inputs for the member registration process are,

Choose... ▾

2. Output of the borrowing process is,

Choose... ▾

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Question 5
Not yet answered
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Flag question

Which of the following are true related to the following Relationship?



Select one or more:

a. The Degree of the relationship is 3
 b. An entity in the Course entity-set can make only one relationship instance with the other side.
 c. This is not a Binary relationship
 d. An entity in the Student entity-set can make only one relationship instance with the other side
 e. Cardinality ratio of the relationship is 1:M from Course to Student

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Question 6

Not yet answered

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A Composite key can be explained as

Select one:

- a. An attribute containing multiple values
- b. A group of composite attributes
- c. A group of attributes which makes up the key
- d. A group of regular entities

A possible example for a “Derived attribute” would be,

Select one:

- a. Name
- b. Birth date
- c. Age
- d. Phone number

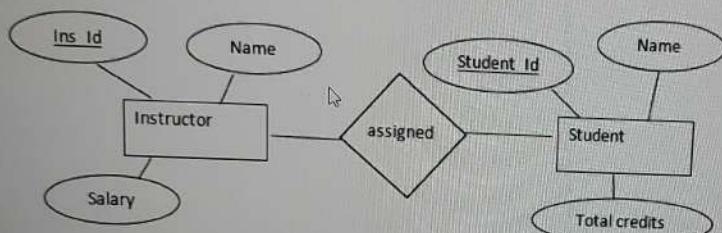


Question 7

Not yet answered
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Flag question

Identify correct cardinalities for following ER diagram, based on the following scenario.
'There are multiple instructors assigned to each student. An instructor will be allocated to many students.'



Select one:

- a. 1:1
- b. 1:1 or 1:M
- c. M:N
- d. 1:M or M:N
- e. 1:M

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The SQL statement that queries or reads data from a table is _____

Select one:

- A. READ
- B. QUERY
- C. None of the given answers is correct
- D. SELECT

2. Output of the borrowing process is,

- a) Student ID/employee ID
- b) Book title
- c) Book ID
- d) Returning date
- e) Deposit amount

3. Which of the following statement/s is/are related to the processing function of the SLIIT library system?

- a) Periodically, the system reports on the books available, books overdue and membership
- b) Calculates fines for overdue books
- c) Checks for valid membership
- d) Refunds the deposit amount after completing the degree
- e) Captures student ID and Book ID before issuing the book to the student
- f) Captures employee ID and Book ID before returning the book by the staff member

1. Inputs for the member registration process are,

a, e

2. Output of the borrowing process is,

b, c, d

3. Which of the following statement/s is/are related to the processing function of the SLIIT library system?

b, c

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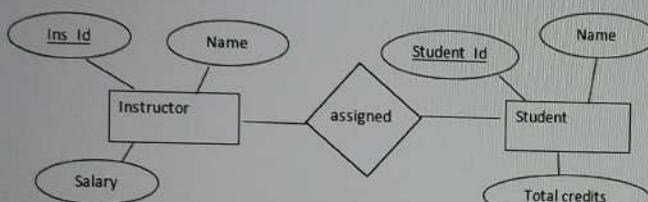


Question 7

Not yet answered
Marked out of 4.00[Flag question](#)

Identify correct cardinalities for following ER diagram, based on the following scenario.

'There are multiple instructors assigned to each student. An instructor will be allocated to many students.'



Select one:

- a. 1:1
- b. 1:1 or 1:M
- c. M:N
- d. 1:M or M:N
- e. 1:M

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Question 8
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Flag question

Which of the following is/are TRUE with respect to Enterprise Systems?

Select one or more:

a. Support the business processes across any functional boundaries that exist within the organisation

b. Main elements are ERP, CRM, SCM and SRM

c. Computer systems that emulate the decision-making ability of a human expert

d. Used to manage the administrative functions in an office environment

e. Represent the knowledge and decision-making skills of specialists

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Analyze the following scenario and select the correct answer for the following questions.

Lecturers in a well-established campus with many faculties, maintain their student assessment/exam grades in Excel Sheets. They maintain a separate spreadsheet for every module they teach. In the spreadsheet they track the scores for every assignment and test. Then assign term grade for the module. The Examinations department of the campus has to request student grades for the modules from the relevant lectures after each exam, to finalize the student's final grades for the term. Also the Management plans to get improved statistics based on student exam marks and to analyze them with the aim of improving the quality of the education provided.

1. Do you think it is necessary for them to go for the Database approach?

2. What is the main advantage (if the answer for above is Yes) or the disadvantage (if the answer for above is No) the database approach would have over the current system?

3. If the database approach were used, the Database Administrator need to identify a suitable data storage method. In the Three-schema architecture of the DBMS where would one find details of the storage method used?

4. If the database approach were used, and if Database Administrator identifies the need to move to a new data storage method which is much more efficient, he will be able to make changes without effecting the upper levels of the Three-schema architecture. This property is known as

2. Which of the following statements are related to the input function of the SLIIT library system?

- a) Periodically, the system reports on the books available, books overdue and memberships
- b) Calculates fines for overdue books
- c) Check for valid membership
- d) Refunds the deposit amount after completing the degree
- e) Captures student ID and Book ID before issuing the book to the student
- f) Captures employee ID and Book ID before returning the book by the staff member

3. Which of the following is NOT an output of SLIIT library system?

- a) Daily transaction report
- b) Reports on the books available
- c) Reports on the books overdue
- d) List of memberships
- e) Salary slip of the library assistant

1. Which of the following is a direct user of the SLIIT library information system?

Choose... ▾

2. Which of the following statements are related to the input function of the SLIIT library system?

Choose... ▾

3. Which of the following is NOT an output of SLIIT library system?

Choose... ▾

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Question 8

Not yet answered

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What is/are True related to a Database Management System (DBMS)?

Select one or more:



- a. It supports in managing the data in the database
- b. Achieving Program-Data Independence is not possible with it
- c. In order to maintain the integrity of the data in a database, It supports to define rules on data
- d. It does not support Concurrent access to the data in the database
- e. It is a software package designed to define, manipulate, retrieve data in a database

Question 9
Not yet answered
Marked out of 8.00
 Flag question

Read the following paragraph and answer the questions below.

Library information system at SLIIT provides the facility to borrow books for studies. Library catalogue is constantly updated to accommodate resource materials relating to new developments in core teaching areas. The newly added material can be a book, a journal, a CD or an article. Member registration needs students to deposit refundable amount of Rs.5000. It is not required for the staff members. Borrowing involves, selecting the desired material from the library by the member and library assistant recording it against the student ID or the employee ID. Borrowing process automatically generates the returning date relevant to the borrowing transaction. Returning involves, submitting the material on the returning date by the student/staff member, calculating fines if any and recording the returning transaction in the system by the library assistant. At the end of the day, librarian generates the daily transaction report from the system.

Select the correct answer for the following questions, using the drop-down menu.

1. Which of the following is a direct user of the SLIIT library information system?

- a) Student
- b) Staff member
- c) Library assistant
- d) Material supplier
- e) Librarian

2. Which of the following statements are related to the input function of the SLIIT library system?

- a) Periodically, the system reports on the books available, books overdue and memberships
- b) Calculates fines for overdue books
- c) Check for valid membership
- d) Refunds the deposit amount after completing the degree
- e) Captures student ID and Book ID before issuing the book to the student
- f) Captures employee ID and Book ID before returning the book by the staff member

3. Which of the following is NOT an output of SLIIT library system?

- a) Daily transaction report
- b) Reports on the books available
- c) Reports on the books overdue

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INSTRUCTIONS



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c) Library assistant

- d) Material supplier
- e) Librarian

2. Which of the following statements are related to the input function of the SLIIT library system?

- a) Periodically, the system reports on the books available, books overdue and memberships
- b) Calculates fines for overdue books
- c) Check for valid membership
- d) Refunds the deposit amount after completing the degree.
- e) Captures student ID and Book ID before issuing the book to the student
- f) Captures employee ID and Book ID before returning the book by the staff member

3. Which of the following is NOT an output of SLIIT library system?

- a) Daily transaction report
- b) Reports on the books available
- c) Reports on the books overdue
- d) List of memberships
- e) Salary slip of the library assistant

1. Which of the following is a direct user of the SLIIT library information system?

▼

2. Which of the following statements are related to the input function of the SLIIT library system?

▼

3. Which of the following is NOT an output of SLIIT library system?

▼

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EXAM CONCERNS

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Select * from employee

What type of a statement is this?

Select one:

- a. DCL (Data Control Language)
- b. DDL (Data Definition Language)
- c. Integrity constraint
- d. DML (Data Manipulation Language)



Question 10
Not yet answered
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 Flag question

_____ operator is used to compare a value to a list of literals values that have been specified.

Select one:

- A. BETWEEN
- B. COMPARE
- C. IN
- D. Like

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EXAM CONCERNs



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_____ operator is used to compare a value to a list of literals values that have been specified.

Select one:

- A. COMPARE
- B. IN
- C. BETWEEN
- D. Like

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S W I F T





Question 11

Not yet answered

Marked out of
2.00

Flag question

The SQL statement that queries or reads data from a table is _____

Select one:

- A. QUERY
- B. SELECT
- C. READ
- D. None of the given answers is correct



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Question 9

Not yet answered

Marked out of
3.00

Flag question

Which of the following is/are TRUE with respect to Expert Systems?

Select one or more:

- a. Used to manage the administrative functions in an office environment
- b. Computer systems that emulate the decision-making ability of a human expert
- c. Represent the knowledge and decision-making skills of specialists
- d. Kind of enterprise systems
- e. Based on Artificial Intelligence technologies



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14
Answered
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question

Analyze the following scenario and select the correct answer for the following questions.

Lecturers in a well-established campus with many faculties, maintain their student assessment/exam grades in Excel Sheets. They maintain a separate spreadsheet for every module they teach. In the spreadsheet they track the scores for every assignment and test. Then assign term grade for the module. The Examinations department of the campus has to request student grades for the modules from the relevant lectures after each exam, to finalize the student's final grades for the term. Also the Management plans to get important statistics based on student exam marks and to analyze them with the aim of improving the quality of the education provided.

1. Do you think it is necessary for them to go for the Database approach?
2. What is the main advantage (if the answer for above is Yes) or the disadvantage (if the answer for above is No) the database approach would have over the current system?
3. If the database approach were used, the Database Administrator need to identify a suitable data storage method. In the Three-schema architecture of the DBMS where would you find details of the storage method used?
4. If the database approach were used, and if Database Administrator identifies the need to move to a new data storage method which is much more efficient, he will be able to do the change without effecting the upper levels of the Three-schema architecture. This property is known as

- What is/are True related to a Database Management System (DBMS)?
- Select one or more:
- a. It does not support Concurrent access to the data in the database
 - b. It supports in managing the data in the database
 - c. In order to maintain the integrity of the data in a database, It supports to define rules on data
 - d. It is a software package designed to define, manipulate, retrieve data in a database
 - e. Achieving Program-Data Independence is not possible with it

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Flag question



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Question 11

Not yet answered

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Flag question

Analyze the following scenario and select the correct answer for the following questions.

Lecturers in a well-established campus with many faculties, maintain their student assessment/exam grades in Excel Sheets. They maintain a separate spreadsheet for every module they teach. In the spreadsheet they track the scores for every assignment and test. Then assign term grade for the module. The Examinations department of the campus has to request student grades for the modules from the relevant lectures after each exam, to finalize the student's final grades for the term. Also the Management plans to get important statistics based on student exam marks and to analyze them with the aim of improving the quality of the education provided.

1. Do you think it is necessary for them to go for the Database approach? Yes

2. What is the main advantage (if the answer for above is Yes) or the disadvantage (if the answer for above is No) the database approach would have over the current system? Data Centralization and Ease of Management

3. If the database approach were used, the Database Administrator need to identify a suitable data storage method. In the Three schema architecture of the DBMS where would you find details of the storage method used? Physical Schema

4. If the database approach were used, and if Database Administrator identifies the need to move to a new data storage method which is much more efficient, he will be able to do the change without effecting the upper levels of the Three-schema architecture. This property is known as Physical Data Independence

Quiz navigation

Finish attempt...

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INSTRUCTIONS

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EXAM QUESTIONS

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EXAM CONCERN

15

Next page



What is/are true related to Relational Database Management Systems (RDBMS)?

Select one or more:

- a. Database management systems like SQL, MS SQL Server are based on the 'relational model'
- b. It supports the storage of real world data as 'objects'
- c. Enable users to manage predefined data relationships across multiple databases.
- d. It is based on the 'relational model' introduced by E.F. Codd
- e. Relational databases work on tables which has a 'key' field that uniquely indicates each row of the table

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Question 12

Not yet answered

Marked out of 2.00

Flag question

The HAVING clause does which of the following?

Select one:

A. Acts EXACTLY like a WHERE clause.

B. Acts like a WHERE clause but is used for columns rather than groups.

C. Acts like a WHERE clause but is used for rows rather than columns.

D. Acts like a WHERE clause but is used for groups rather than rows.

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Quiz navigation

Finish attempt ...

Time left 0:30:22

INSTRUCTIONS

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EXAM QUESTIONS

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EXAM CONCERN

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lag question

Which of the following is/are TRUE with respect to Enterprise Systems?

Select one or more:

- a. Computer systems that emulate the decision-making ability of a human expert
- b. Used to manage the administrative functions in an office environment
- c. Main elements are ERP, CRM, SCM and SRM
- d. Represent the knowledge and decision-making skills of specialists
- e. Support the business processes across any functional boundaries that exist within the organisation



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What is/are True related to a Database Management System (DBMS)?

Select one or more:

- a. It supports in managing the data in the database
- b. It does not support Concurrent access to the data in the database
- c. It is a software package designed to define, manipulate, retrieve data in a database
- d. In order to maintain the integrity of the data in a database, It supports to define rules on data
- e. Achieving Program-Data Independence is not possible with it

Next



Question 13
Not yet answered
Marked out of 5.00
 Flag question

Consider the following schema which provides information about employees and departments

Emp (eid: integer, ename: string, age: integer, salary: real)
Works (eid: integer, did: integer, percentage_time: integer)
Dept (did: integer, dname: string, budget: real)

Find the most suitable SQL query for the given question.

Find the names of employees who works in either the department with did 10 or did 20

Select one:

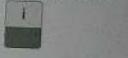
- a. SELECT e.ename FROM emp e, works w WHERE e.eid=w.eid AND (w.did=10 OR w.did=20);
- b. All queries have syntax errors
- c. SELECT e.ename FROM emp e, works w WHERE w.did=10 OR w.did=20;
- d. SELECT e.ename FROM emp e, works w HAVING w.did=10 OR w.did=20;
- e. SELECT e.ename FROM emp e, works w HAVING e.eid=w.eid AND w.did=10 AND w.did=20;

Quiz navigation

Finish attempt ...

Time left 0:27:21

INSTRUCTIONS



EXAM QUESTIONS

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EXAM CONCERN

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2 Consider the following Employee table and the given query.

eno	NIC	ename	address	dnumber
100	901250087V	Smith,John B	731 Fondren, H...	5
101	895290452V	Wrong, Franklin T.	638 Voss, Houst...	5
102	923859070V	Zelaya, Alicia J.	33321 Castle, S...	4
104	904850045V	Narayan, Remesh K.	975 Fire Oak, H...	5
105	889950600V	English, Joyce A.	5631 Rice, Hous...	1
106	915850123V	Jabbar, Ahmad V.	980 Dallas, Hou...	1

SELECT ename FROM Employee
WHERE ename LIKE'%me%';

Which names does this query return?

Select one or more:

- a.
Zelaya, Alicia J.
- b. None of the given names
- c.
Narayan, Remesh K.
- d. Jabbar, Ahamad V.
- e.
Wrong, Franklin T.

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What is/are True related to a Database Management System (DBMS)?

Select one or more:

- a. It is a software package designed to define, manipulate, retrieve data in a database
- b. It supports in managing the data in the database
- c. It does not support Concurrent access to the data in the database
- d. Achieving Program-Data Independence is not possible with it
- e. In order to maintain the integrity of the data in a database, It supports to define rules on da



Analyze the following scenario and select the correct answer for the following questions.

Lecturers in a well-established campus with many faculties, maintain their student assessment/exam grades in Excel Sheets. They maintain a separate spreadsheet for every module they teach. In the spreadsheet they track the scores for every assignment and test. Then assign term grade for the module. The Examinations department of the campus has to request student grades for the modules from the relevant lectures after each exam, to finalize the student's final grades for the term. Also the Management plans to get important statistics based on student exam marks and to analyze them with the aim of improving the quality of the education provided.

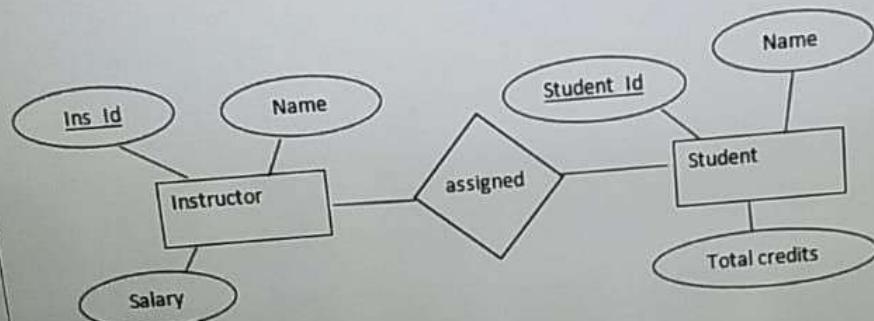
1. Do you think it is necessary for them to go for the Database approach?
2. What is the main advantage (if the answer for above is Yes) or the disadvantage (if the answer for above is No), the database approach would have over the current system?
Choose...
3. If the database approach were used, the Database Administrator need to identify a suitable data storage method. In the Three-schema architecture of the DBMS where would you find details of the storage method used? Choose...
4. If the database approach were used, and if Database Administrator identifies the need to move to a new data storage method which is much more efficient, he will be able to do the change without effecting the upper levels of the Three-schema architecture. This property is known as Choose...

Analyze the following scenario and select the correct answer for the following questions.

Lecturers in a well-established campus with many faculties, maintain their student assessment/exam grades in Excel Sheets. They maintain a separate spreadsheet for every they teach. In the spreadsheet they track the scores for every assignment and test. Then assign term grade for the module. The Examinations department of the campus has request student grades for the modules from the relevant lectures after each exam, to finalize the student's final grades for the term. Also the Management plans to get impo statistics based on student exam marks and to analyze them with the aim of improving the quality of the education provided.

1. Do you think it is necessary for them to go for the Database approach?
2. What is the main advantage (if the answer for above is Yes) or the disadvantage (if the answer for above is No) the database approach would have over the current system?
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4. If the database approach were used, and if Database Administrator identifies the need to move to a new data storage method which is much more efficient, he will be able to do the change without effecting the upper levels of the Three-schema architecture. This property is known as

Identify correct cardinalities for following ER diagram, based on the following scenario.
There are multiple instructors assigned to each student. An instructor will be allocated to many students.



Select one:

- a. M:N
- b. 1:M
- c. 1:1 or 1:M
- d. 1:M or M:N
- e. 1:1



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What is/are true related to Relational Database Management Systems (RDBMS)?

Select one or more:

- a. Database management systems like SQL, MS SQL Server are based on the 'relational model'
- b. It is based on the 'relational model' introduced by E.F. Codd
- c. Enable users to manage predefined data relationships across multiple databases.
- d. Relational databases work on tables which has a 'key' field that uniquely indicates each row of the table
- e. It supports the storage of real world data as 'objects'

Next page

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The HAVING clause does which of the following?

Select one:

- A. Acts EXACTLY like a WHERE clause.
- B. Acts like a WHERE clause but is used for groups rather than rows.
- C. Acts like a WHERE clause but is used for rows rather than columns.
- D. Acts like a WHERE clause but is used for columns rather than groups.



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A possible example for a "Derived attribute" would be,

Select one:

- a. Phone number
- b. Age
- c. Birth date
- d. Name



Which of the following statement(s) is/are true about the given ER diagram?

The diagram illustrates an Entity-Relationship (ER) model. It features two main entities: 'Pilot' and 'Plane'. The 'Pilot' entity is represented by a rectangle and contains attributes 'Pid' (underlined), 'PName' (underlined), and 'PAddress' (underlined). The 'Plane' entity is represented by a rectangle and contains attributes 'Plane_Id' (underlined) and 'Model'. A diamond-shaped relationship symbol, labeled 'operates', connects the two entities. The multiplicity 'N' is indicated near the 'Pilot' side of the relationship, and the multiplicity 'M' is indicated near the 'Plane' side.

Select one or more:

- a. The Degree of the relationship is 2
- b. A pilot is allowed to operate many planes
- c. pName and Model are two Entities
- d. The given realtionship is a Ternary relationship
- e. A plane can be operated by many pilots

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In an SQL SELECT statement querying a single table, the asterisk (*) means that:

Select one:

- A. None of the above is correct.
- B. All records meeting the full criteria are to be returned.
- C. All columns of the table are to be returned.
- D. All records with even partial criteria met are to be returned.

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Question 14

Not yet answered

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Flag question

What is/are true related to Relational Database Management Systems (RDBMS)?

Select one or more:

- a. Database management systems like SQL, MS SQL Server are based on the 'relational model'
- b. It is based on the 'relational model' introduced by E.F. Codd
- c. Enable users to manage predefined data relationships across multiple databases.
- d. Relational databases work on tables which has a 'key' field that uniquely indicates each row of the table
- e. It supports the storage of real world data as 'objects'

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INSTRUCTIONS

EXAM QUESTIONS

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EXAM CONCERN

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Question 13

Not yet answered

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Flag question

The HAVING clause does which of the following?

Select one:

- A. Acts like a WHERE clause but is used for rows rather than columns.
- B. Acts EXACTLY like a WHERE clause. 
- C. Acts like a WHERE clause but is used for columns rather than groups.
- D. Acts like a WHERE clause but is used for groups rather than rows.

What is/are True related to a Database Management System (DBMS)?

Select one or more:

- a. It is a software package designed to define, manipulate, retrieve data in a database
- b. Achieving Program-Data Independence is not possible with it
- c. In order to maintain the integrity of the data in a database, it supports to define rules on data
- d. It supports in managing the data in the database
- e. It does not support Concurrent access to the data in the database

[Next](#)

In an SQL SELECT statement querying a single table, the asterisk (*) means that:

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- B. All records meeting the full criteria are to be returned.
- C. All columns of the table are to be returned.
- D. All records with even partial criteria met are to be returned.



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Question 13

Not yet answered

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2.00

Flag question

The HAVING clause does which of the following?

Select one:

- A. Acts like a WHERE clause but is used for rows rather than columns.
- B. Acts EXACTLY like a WHERE clause.
- C. Acts like a WHERE clause but is used for columns rather than groups.
- D. Acts like a WHERE clause but is used for groups rather than rows.



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What is/are True related to a Database Management System (DBMS)?

Select one or more:

- a. It is a software package designed to define, manipulate, retrieve data in a database
- b. Achieving Program-Data Independence is not possible with it
- c. In order to maintain the integrity of the data in a database, It supports to define rules on data
- d. It supports in managing the data in the database
- e. It does not support Concurrent access to the data in the database

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Question 14
Not yet answered
Marked out of 4.00
Flag question

Which of the following are true related to the following Relationship?



Select one or more:

- a. The Degree of the relationship is 3
- b. An entity in the Course entity-set can make only one relationship instance with the other side
- c. An entity in the Student entity-set can make only one relationship instance with the other side
- d. Cardinality ratio of the relationship is 1:M from Course to Student
- e. This is not a Binary relationship

The SQL statement that queries or reads data from a table is _____

Select one:

- A. None of the given answers is correct
- B. READ
- C. QUERY
- D. SELECT

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Consider the following schema which provides information about employees and departments

Emp (eid: integer, ename: string, age: integer, salary: real)

Works (eid: integer, did: integer, percentage_time: integer)

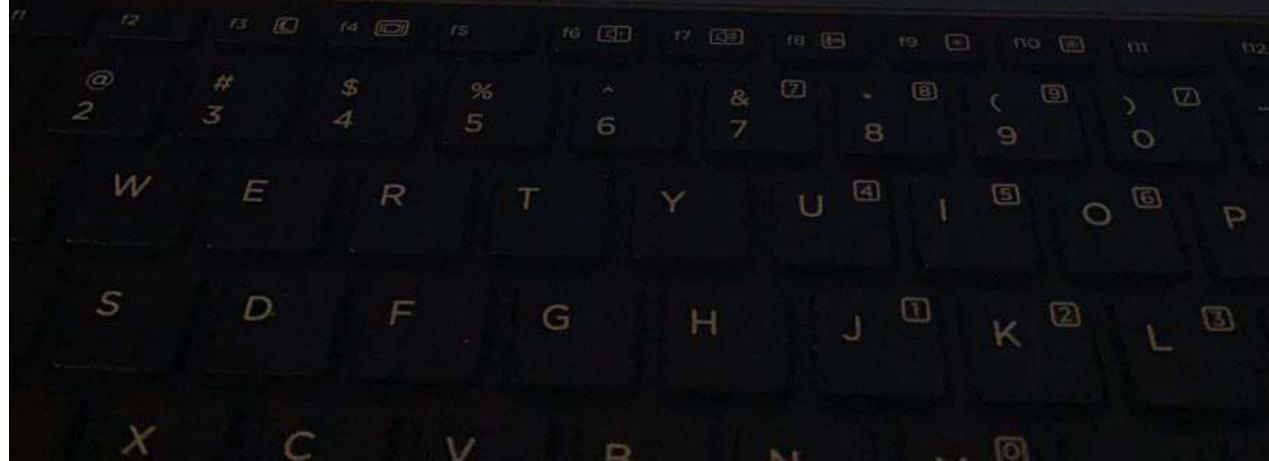
Dept (did: integer, dname: string, budget: real)

Find the most suitable SQL query for the given question.

Find the names of employees who works in a department which has a budget over Rs. 50,000.00

Select one:

- a.
SELECT e.ename FROM emp e, works w, Dept d WHERE e.eid=w.eid AND w.did=d.did HAVING d.budget>50000;
- b. All queries have syntax errors
- c.
SELECT e.ename FROM emp e, Dept d WHERE d.budget>50000;
- d.
SELECT e.ename FROM emp e, works w, Dept d WHERE d.budget>50000;
- e. SELECT e.ename FROM emp e, works w, Dept d WHERE e.eid=w.eid AND w.did=d.did AND d.budget>50000;



A “Quaternary Relationship” is a relationship with,

Select one:

- a. Two participating entities
- b. Three participating entities
- c. Four participating entities
- d. None of the above

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Which of the following is/are TRUE with respect to Enterprise Systems?

Select one or more:

- a. Represent the knowledge and decision-making skills of specialists.
- b. Computer systems that emulate the decision-making ability of a human expert.
- c. Used to manage the administrative functions in an office environment.
- d. Support the business processes across any functional boundaries that exist within the organisation.
- e. Main elements are EBP, CRM, SCM and SRM.



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A possible example for a "Derived attribute" would be,

Select one:

- a. Birth date
- b. Age
- c. Name
- d. Phone number

2. Which of the following statements are related to the input function of the SLIIT library system?

- a) Periodically, the system reports on the books available, books overdue and memberships
- b) Calculates fines for overdue books
- c) Check for valid membership
- d) Refunds the deposit amount after completing the degree
- e) Captures student ID and Book ID before issuing the book to the student
- f) Captures employee ID and Book ID before returning the book by the staff member

3. Which of the following is NOT an output of SLIIT library system?

- a) Daily transaction report
- b) Reports on the books available
- c) Reports on the books overdue
- d) List of memberships
- e) Salary slip of the library assistant

1. Which of the following is a direct user of the SLIIT library information system?

Choose... ▾

2. Which of the following statements are related to the input function of the SLIIT library system?

Choose... ▾

3. Which of the following is NOT an output of SLIIT library system?

Choose... ▾



Question 14

Not yet answered

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3.00

Flag question

What is/are true related to Relational Database Management Systems (RDBMS)?

Select one or more:

- a. Relational databases work on tables which has a 'key' field that uniquely indicates each row of the table
- b. Database management systems like SQL, MS SQL Server are based on the 'relational model'
- c. It is based on the 'relational model' introduced by E.F. Codd
- d. Enable users to manage predefined data relationships across multiple databases.
- e. It supports the storage of real world data as 'objects'

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Question 10

Not yet answered

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Flag question

In an SQL SELECT statement querying a single table, the asterisk (*) means that:

Select one:

- A. None of the above is correct.
- B. All columns of the table are to be returned.
- C. All records meeting the full criteria are to be returned.
- D. All records with even partial criteria met are to be returned.

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Question 8

Not yet answered

Marked out of
3.00 Flag question

Which of the following is/are TRUE with respect to Expert Systems?

Select one or more:

- a. Computer systems that emulate the decision-making ability of a human expert
- b. Represent the knowledge and decision-making skills of specialists
- c. Based on Artificial Intelligence technologies
- d. Used to manage the administrative functions in an office environment
- e. Kind of enterprise systems

[Next page](#)

A "Descriptive Attribute" can be explained as

Select one:

- a. An attribute which records information about the relationship
- b. An attribute containing multiple values
- c. An attribute describing an entity
- d. An attribute which is derived by using another entity



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Which SQL keyword is used to return only different values?

Select one:

- a. NOSAME
- b. COUNT
- c. DISTINCT
- d. GROUP

- c) Library assistant
d) Material supplier
e) Librarian
2. Which of the following statements are related to the input function of the SLIIT library system?
- a) Periodically, the system reports on the books available, books overdue and memberships
 - b) Calculates fines for overdue books
 - c) Check for valid membership
 - d) Refunds the deposit amount after completing the degree
 - e) Captures student ID and Book ID before issuing the book to the student
 - f) Captures employee ID and Book ID before returning the book by the staff member
3. Which of the following is NOT an output of SLIIT library system?
- a) Daily transaction report
 - b) Reports on the books available
 - c) Reports on the books overdue
 - d) List of memberships
 - e) Salary slip of the library assistant

1. Which of the following is a direct user of the SLIIT library information system?

c

2. Which of the following statements are related to the input function of the SLIIT library system?

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3. Which of the following is NOT an output of SLIIT library system?

e

Next page



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Question 14

Not yet answered

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Flag question

A "Descriptive Attribute" can be explained as

Select one:

- a. An attribute containing multiple values
- b. An attribute which is derived by using another entity
- c. An attribute describing an entity
- d. An attribute which records information about the relationship



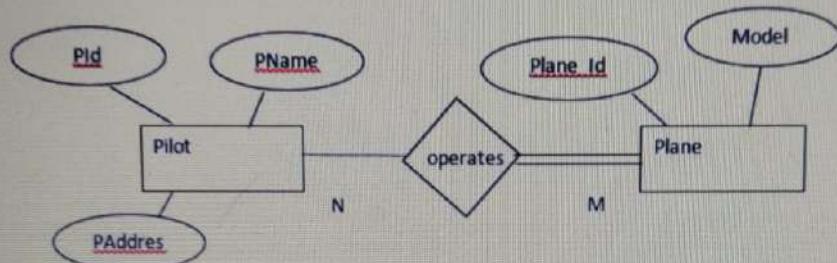
Question 13

Not yet answered

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4.00

Flag question

Which of the following statement(s) is/are true about the given ER diagram?



Select one or more:

- a. The Degree of the relationship is 2
- b. A plane can be operated by many pilots
- c. pName and Model are two Entities
- d. A pilot is allowed to operate many planes
- e. The given realtionship is a Ternary relationship



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Question 13

Not yet answered

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2.00

Flag question

The HAVING clause does which of the following?

Select one:

- A. Acts EXACTLY like a WHERE clause.
- B. Acts like a WHERE clause but is used for rows rather than columns.
- C. Acts like a WHERE clause but is used for column^{ns} rather than groups.
- D. Acts like a WHERE clause but is used for groups rather than rows.



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Select a query that retrieves all of the unique course names from the student table?

Select one:

- a. SELECT UNIQUE coursename FROM studentinfo;
- b. SELECT INDIVIDUAL coursename FROM studentinfo;
- c. SELECT DISTINCT coursename FROM TABLE studentinfo;
- d. SELECT DISTINCT coursename FROM studentinfo;

**Question 1**

Not yet answered

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4.00 Flag question

Consider the following Employee table and the given query.

eno	NIC	ename	address	dnumber
100	901250087V	Smith, John B.	731 Fondren, H... 5	
101	895290452V	Wrong, Franklin T.	638 Voss, Houst... 5	
102	923859070V	Zelaya, Alicia J.	33321 Castle, S... 4	
104	904850045V	Narayan, Reme...	975 Fire Oak, H... 5	
105	889950600V	English, Joyce A.	5631 Rice, Hous... 1	
106	915850123V	Jabbar, Ahama...	980 Dallas, Hou... 1	

```
SELECT ename FROM Employee
```

```
WHERE ename LIKE '%me%';
```

Which names does this query return?

Select one or more:

- a.
Wrong, Franklin T.
- b. None of the given names
- c.
Narayan, Remeesh K.
- d.
Zelaya, Alicia J.
- e. Jabbar, Ahmad V.



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Question 2

Not yet answered

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Flag question

What is/are true related to Relational Database Management Systems (RDBMS)?

Select one or more:

- a. It supports the storage of real world data as 'objects'
- b. Enable users to manage predefined data relationships across multiple databases.
- c. It is based on the 'relational model' introduced by E.F. Codd
- d. Relational databases work on tables which has a 'key' field that uniquely indicates each row of the table
- e. Database management systems like SQL, MS SQL Server are based on the 'relational model'