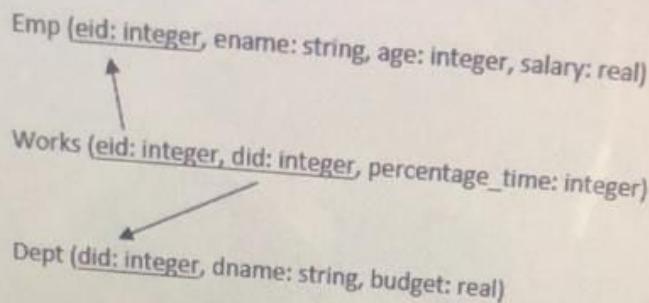


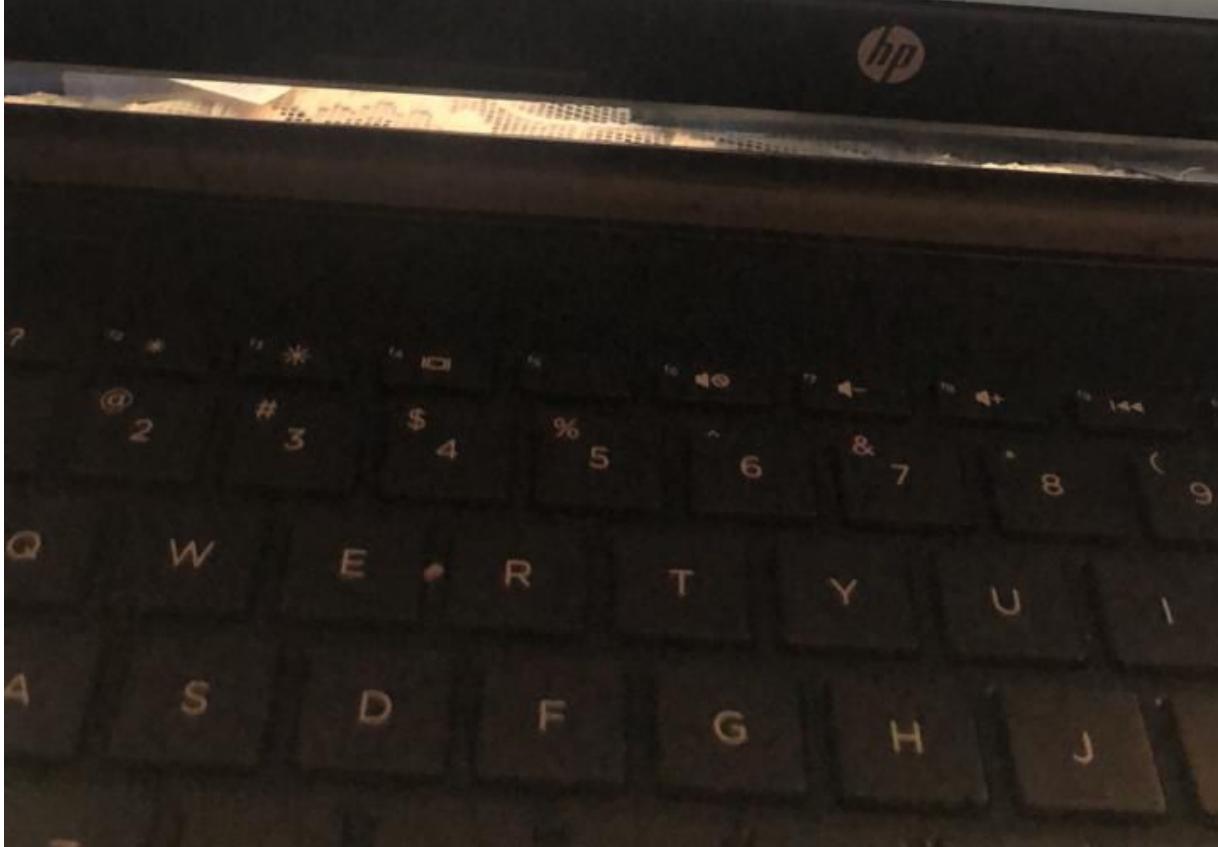
Consider the following schema which provides information about employees and departments:



Find the most suitable SQL query for the given question.
Find the number of employees in each department

Select one:

- a. All queries have syntax errors
- b. `SELECT did, COUNT(*) FROM Works GROUP BY did;`
- c. `SELECT did, ALL(*) FROM Works GROUP BY did;`
- d. `SELECT COUNT(*) FROM Works;`
- e. `SELECT did, COUNT(eid) FROM Works GROUP BY eid;`



Online Exams

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Which of the following can be considered as Candidate Keys for the following Company table?
Company (RegistrationNo, Name, Address, PhoneNumber, E-mail, Type)

Select one or more:

- a. Name, E-mail
- b. E-mail
- c. RegistrationNo
- d. E-mail, Type
- e. Name

**Question 4**

Not yet answered

Marked out of
2.00

Flag question

Components of a Computer based Information System does not include,

Select one:

- a. Procedures
- b. Stored data
- c. Information
- d. Software
- e. Hardware

[Next page](#)



Sri Lanka Institute of Information Technology

QUESTION 4
answered
out of
question

Consider the following schema and complete the answer for the following given SQL query by selecting the most appropriate value.

Note: Drag and Drop the correct values from the relevant (color) category

EMPLOYEE (employee_ID , NAME , EMAIL , PHONE_NUMBER , HIRE_DATE , SALARY , DESIGNATION , DEPARTMENT_ID)

Write a query to display the designation of the employee who gets the minimum salary

SELECT

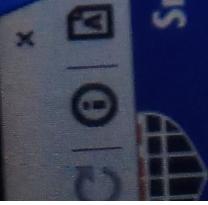
(

);

SELECT FROM WHERE GROUP BY HAVING

EMPLOYEE employee_ID name phone_number hire_date

salary



Consider the following sentence and complete the sentence with an appropriate value.

Note: Drag and Drop the correct values from the relevant (color) category
EMPLOYEE (employee_ID , NAME , EMAIL , PHONE_NUMBER , HIRE_DATE , SALARY , DESIGNATION , DEPARTMENT_ID)

Write a query to display the designation of the employee who gets the minimum salary

SELECT

1

100

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二

```
SELECT FROM WHERE GROUP BY HAVING
```

Question 4

Not yet answered

Marked out of
3.00

 Flag question

Which of the following can be considered as Candidate Keys for the following Company table?

Company (RegistrationNo, Name, Address, PhoneNumber, E-mail, Type)

Select one or more:

- a. Name
- b. Name, E-mail
- c. E-mail, Type
- d. RegistrationNo
- e. E-mail



Nex

Question 4

Not yet answered

Marked out of
3.00 Flag question

Select the correct answer for the missing part of the following statement.

When execute the following insert statement constraint will be violated.

INSERT INTO Department VALUES (2, 'Marketing');

Employee

empNo	name	salary (US\$)	dno
EM1201	Sandra	400	1
EM2390	Alex	315	1
EM2213	John	560	2

Department

dNo	name
1	HR
2	Finance

Question 4

Not yet answered

Marked out of
3.00

Flag question

Select the correct answer for the missing part of the following statement.

When execute the following Insert statement

Choose... ▾

Choose...

Key

Referential Integrity

Entity Integrity

Domain

Check

constraint will be violated.

INSERT INTO Department VALUES (2, 'Marketi

Employee

empNo	name	salary (US\$)	dno
EM1201	Sandra	400	1
EM2390	Alex	315	1
EM2213	John	560	2

Department

dNo	name
1	HR
2	Finance



2

answered
out of
question

In a schema in the 2NF

Select one or more:

- a. No partial multivalued dependencies exist.
- b.
No partial functional dependencies exist
- c.
No functional dependencies exist.
- d. No transitive dependancies exist
- e. No multivalued attributes exist.



**Question 5**

Not yet answered

Marked out of
4.00

Flag question

Consider the following schema which provides information about student results

Results (StudentNo, SubjectNo, Marks)

Find the most suitable SQL query for the given question.

Display the total marks for each student in ascending order of marks.

Select one:

- a. SELECT Marks, StudentNo FROM Results GROUP BY StudentNo ORDER BY Marks DESC;
- b. SELECT Marks, StudentNo FROM Results GROUP BY StudentNo ORDER BY Marks ;
- c. SELECT SUM (Marks), StudentNo FROM Results GROUP BY StudentNo ORDER BY SUM (Marks);
- d. SELECT SUM (Marks), StudentNo FROM Results ORDER BY SUM (Marks);
- e. SELECT SUM (Marks), StudentNo FROM Results GROUP BY StudentNo ORDER BY SUM (Marks) DESC;

[Next page](#)

Information systems are

Select one:

- a.
Disseminateing information.
- b. used by IT professionals
- c.
Computerized.
- d.
Essential for businesses.
- e.
Making decisions.

A table is in 3NF if it is in 2NF and if it has no

Select one:

- a.
multivalued attributes
- b.
trivial functional dependencies
- c. non trivial functional dependencies
- d.
functional dependencies
- e.
transitive dependencies



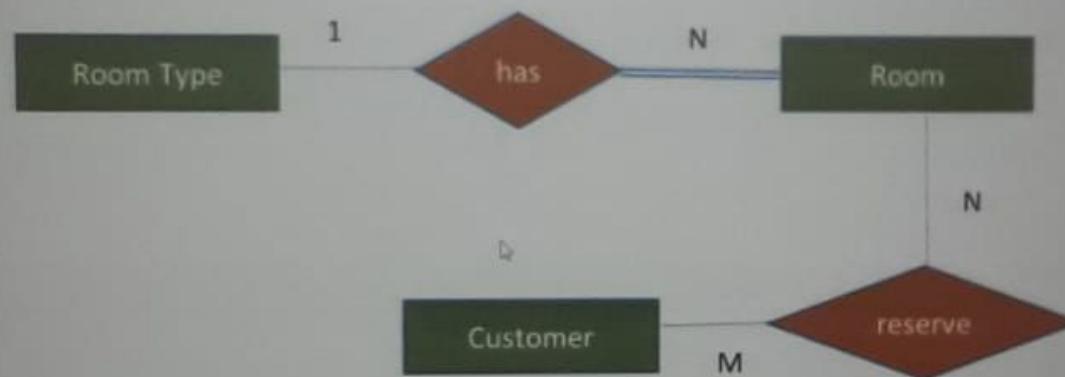
Question 5

Not yet answered

Marked out of
2.00

Flag question

Refer the following diagram related to a Hotel room reservation system. They need to store the 'Check in date' and 'Check out date' of the customers. According to this design what is the most suitable attribute type for 'Check in date' and 'Check out date'?



Select one:

- a. Descriptive attribute
- b. Derived attributes
- c. Simple attribute
- d. Multivalued attributes
- e. Determinant attributes

[Previous](#)

Smart class

Select @Count (Cstname)

from student

group by Stname ;

Output : 5 //

Database systems comprise of complex data structures. Thus, to make the system efficient for retrieval of data and reduce the complexity of the users, developers use the method of Data Abstraction.

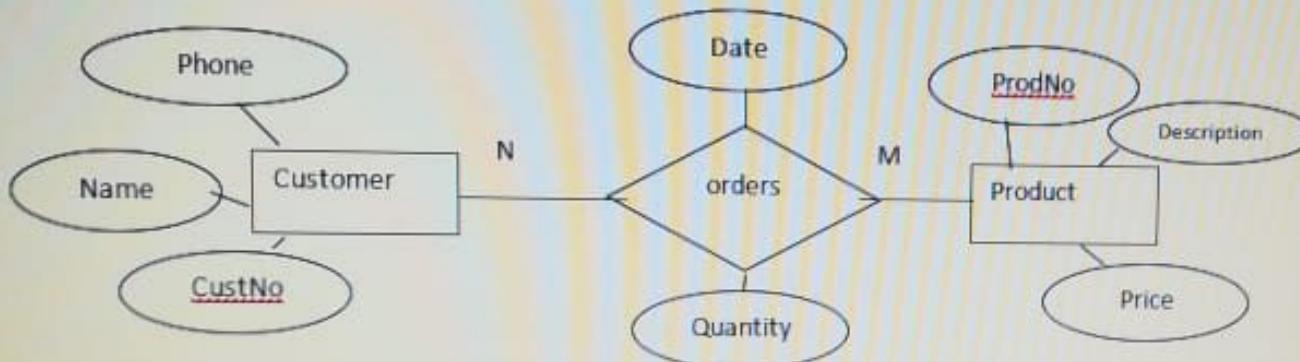
The Choose...  is considered as the lowest level of the data abstraction which states how the data is stored in the computer memory.

The dropdown menu shows the following options:

- Choose...
- Internal Level
- Conceptual Level
- External Level
- Logical Level
- User Level

Next page

What is true about the following ER diagram?



Select one or more:

- a. Quantity and Date are Descriptive attributes
- b. Database created with this ER design can keep history information of the orders placed by a customer for a product
- c. Price of a product is subjective. It changes based on the customer type
- d. Cardinality ratio of the relationship is M:N
- e. Database created with this ER design can keep only the most recent information of the orders placed by a customer for a product

≡ Quiz nav

INSTRUCTIONS

1

EXAM QUESTION

1 2 3

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15 16 17

22 23 24

29 30

COMMENTS AND D

31

Finish attempt...

Time left 1:40:01

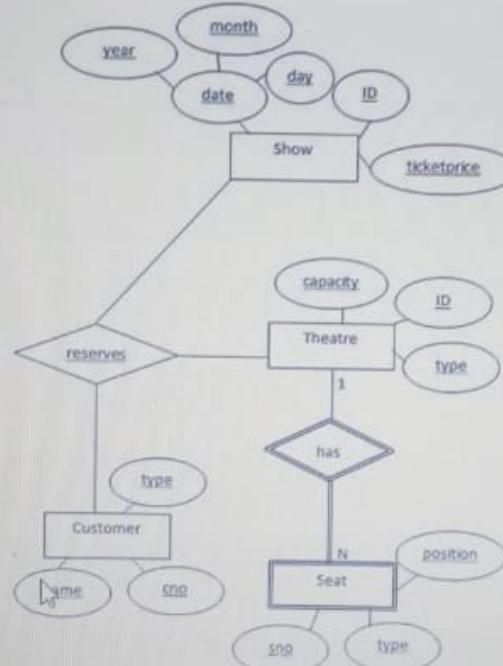
Question 1

Not yet answered

Marked out of
5.00

Flag question

Select the correct answer after map the following ER model into the relational model.



Select one:

- a. Reserves (ID, cno, theatreID, sno)
- b. Seat (ID, sno, position, type)
- c. Customer (cno, name, type)
- d. Theatre (ID, type, capacity)
- e. Show (ID, year, month, day, date, ticketprice)

≡ Quiz navigation

INSTRUCTIONS

1

EXAM QUESTIONS

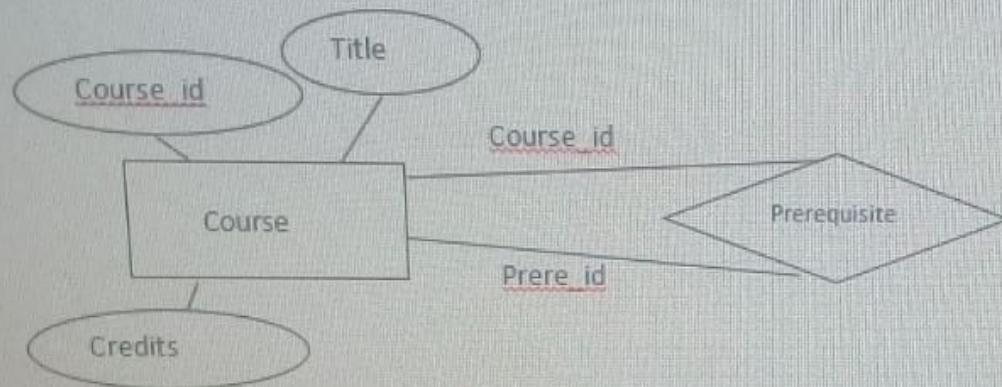
1	2	3	4	5	6
8	9	10	11	12	13
15	16	17	18	19	20
22	23	24	25	26	27
29	30				

COMMENTS AND CONCERNs

31

Finish attempt ...

Time left 1:55:43



Consider the given ER diagram. What kind of a relationship is this?

Select one:

- a. Recursive relationship
- b. Multiple relationship
- c. Entity Relationship
- d. Distinct entity relationship
- e. Course relationship



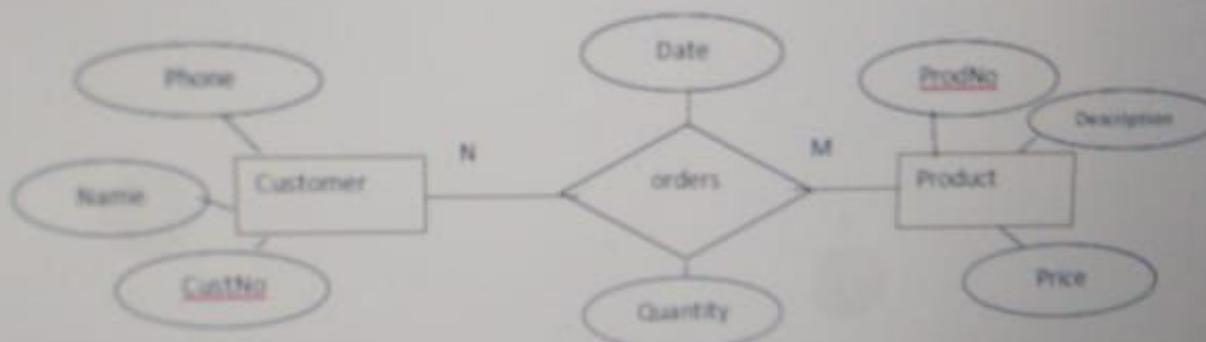
Question 6

Not yet answered

Marked out of
4.00

Flag question

What is true about the following ER diagram?



Select one or more:

- a. Database created with this ER design can keep history information of the orders placed by a customer for a product
- b. Price of a product is subjective. It changes based on the customer type
- c. Cardinality ratio of the relationship is M:N
- d. Database created with this ER design can keep only the most recent information of the orders placed by a customer for a product
- e. Quantity and Date are Descriptive attributes



Dependency preserving property is not guaranteed in

Select one:

- a. BCNF
- b. First Normal Form
- c. Second Normal Form
- d.
Third Normal Form
- e. 3NF and BCNF

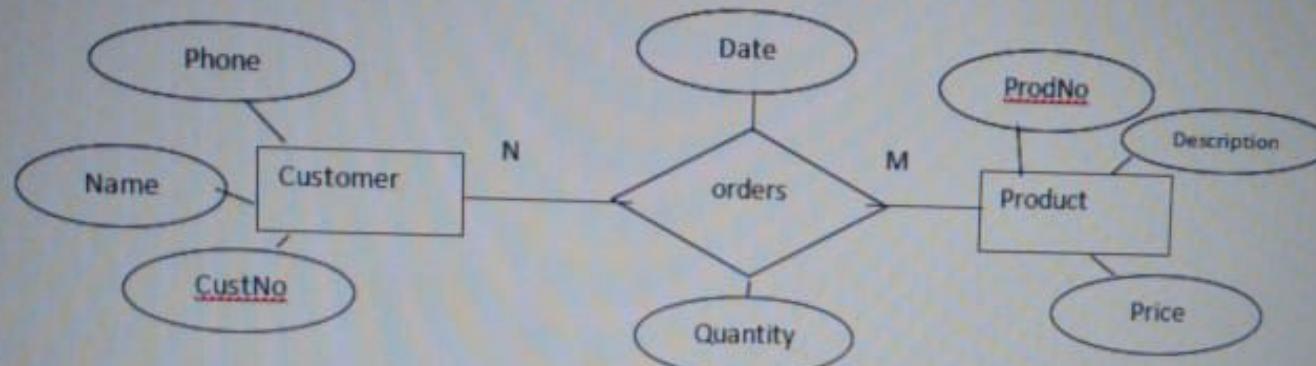
Question 3

Not yet answered

Marked out of
10

Flag question

What is true about the following ER diagram?



Select one or more:

- a. Database created with this ER design can keep only the most recent information of the orders placed by a customer for a product.
- b. Quantity and Date are Descriptive attributes
- c. Database created with this ER design can keep history information of the orders placed by a customer for a product
- d. Price of a product is subjective. It changes based on the customer type
- e. Cardinality ratio of the relationship is M:N

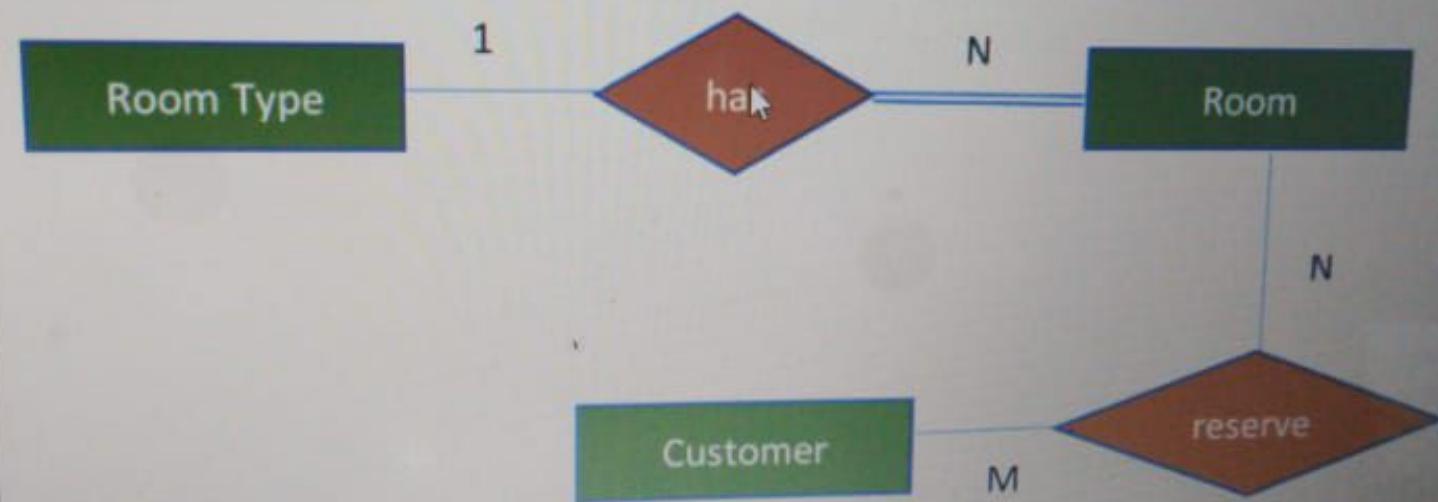
Question 5

Not yet answered

Marked out of
2.00

Flag question

Refer the following diagram related to a **Hotel room reservation** system. They need to store the 'Check in date' and 'Check out date' of the customers. According to this design what is the most suitable attribute type for 'Check in date' and 'Check out date'?



Select one:

- a. Determinanat attributes
- b. Simple attribute
- c. Multivalued attributes
- d. Descriptive attribute

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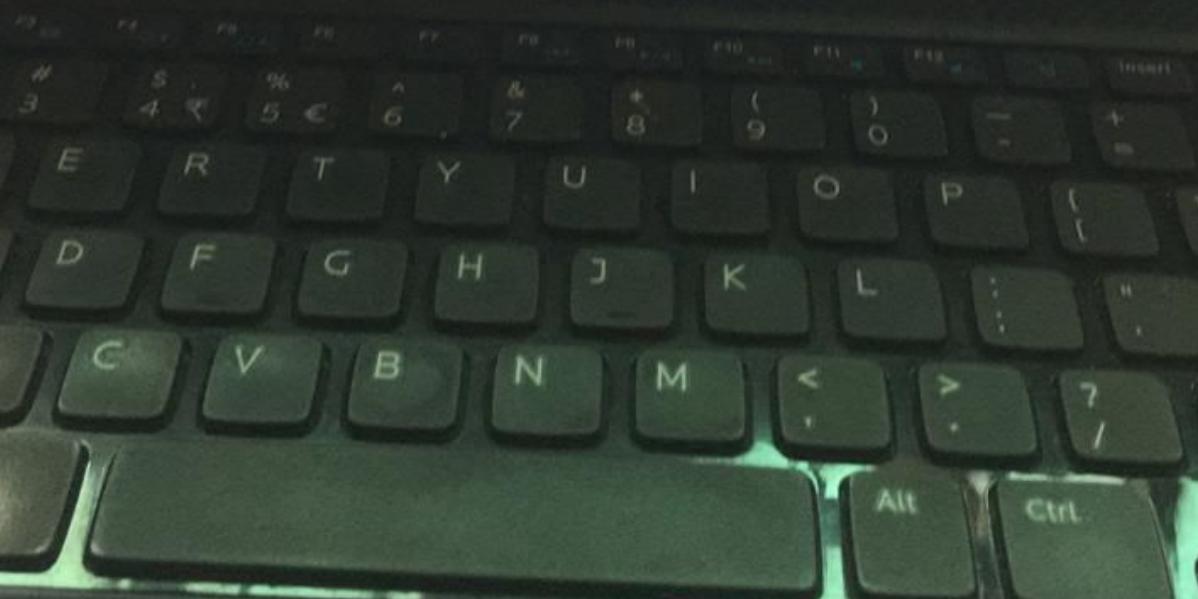
Database systems comprise of complex data structures. Thus, to make the system efficient for retrieval of data and reduce the complexity of the users, developers use the method of Data Abstraction.

The **Choose...** is considered as the lowest level of the data abstraction which states how the data is stored in the computer memory.

- Choose...**
- Internal Level
- Conceptual Level
- External Level
- Logical Level
- User Level

[Next page](#)

DELL



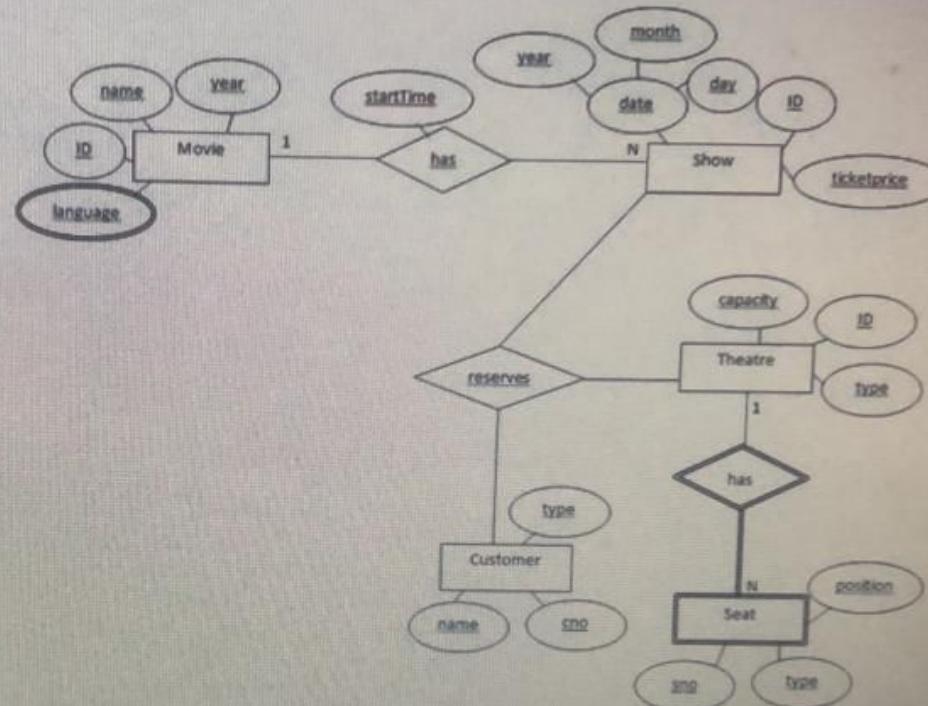
Question 3

Not yet answered

Marked out of
5.00

Flag question

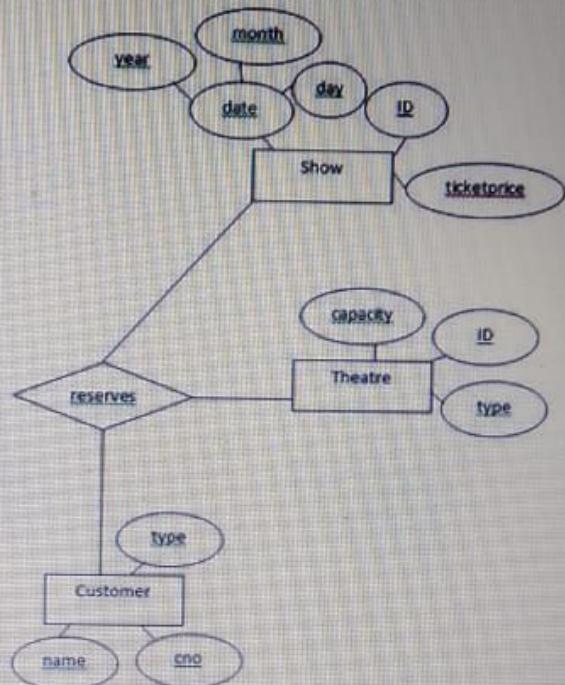
Which of the following is/ are **true** about the schema resulted after mapping the below ER diagram to the relational model?



Select one or more:

- a. The relation containing language attribute has a composite primary key
- b. Seat table will contain 4 attributes
- c. Customer table will contain 4 attributes
- d. Movie table will contain 3 attributes
- e. The relation containing language attribute has 2 foreign keys

Which shows the attributes in the *Reserves* relation after map the following ER model into t



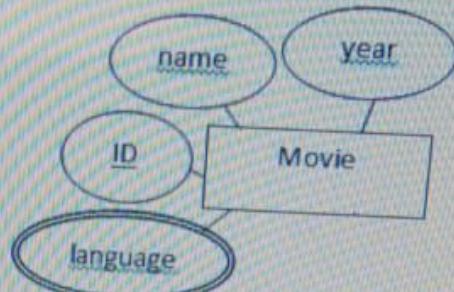
Select one:

- a. Reserves (showID, TID, cno)
- b. Reserves (cno, showID, TID)
- c. Reserves (cno, showID, TID, sno)
- d. Reserves (cno, showID, TID, sno)
- e. Reserves (cno, showID, TID)

Online Exams

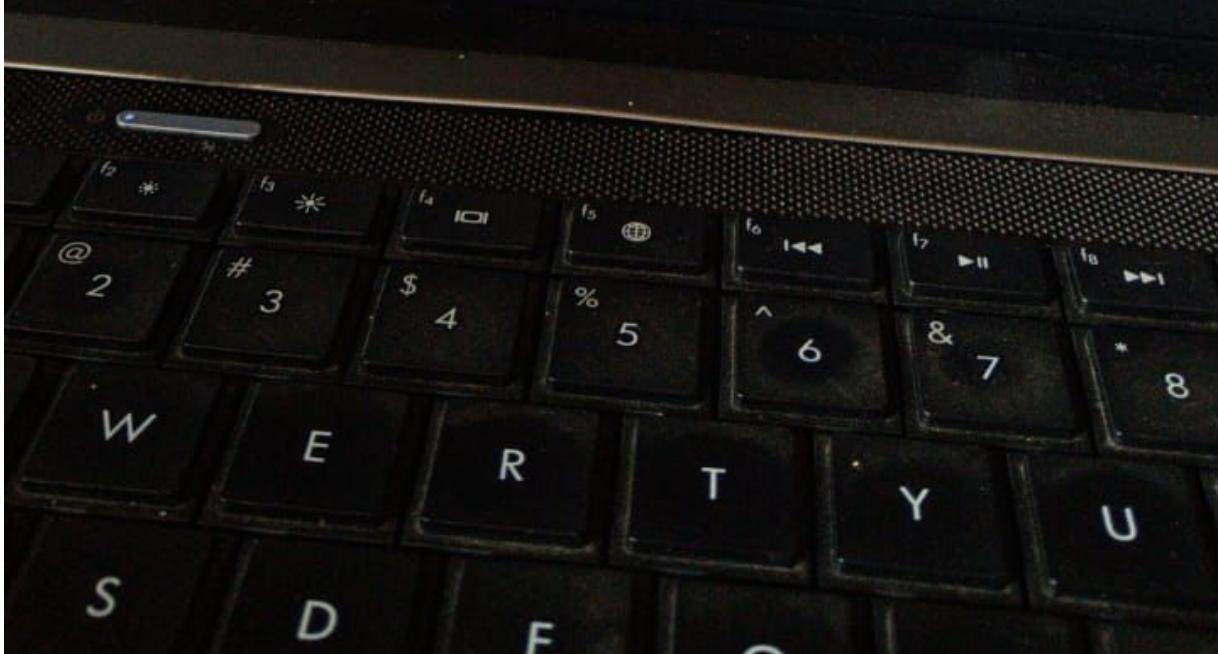
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Select the correct answer when map the *Movie* entity to relational model

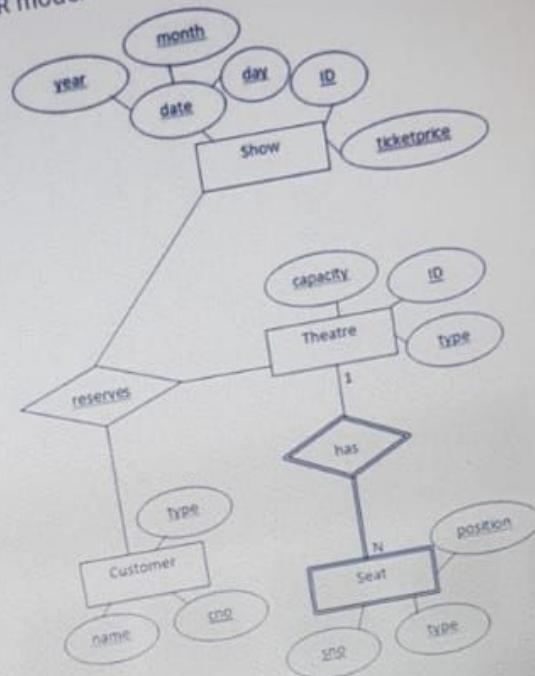


Select one:

- a. Movie (ID, name, year)
Movie_language (ID, language)
 - b. Movie (ID, name, year, language)
 - c. Movie (ID, name, year)
Movie_language (ID, language)
 - d. Movie (ID, language, name, year)
 - e. Movie (ID, name, year, language)
Movie_language (ID, language)



the correct answer after map the following ER model into the relational model.



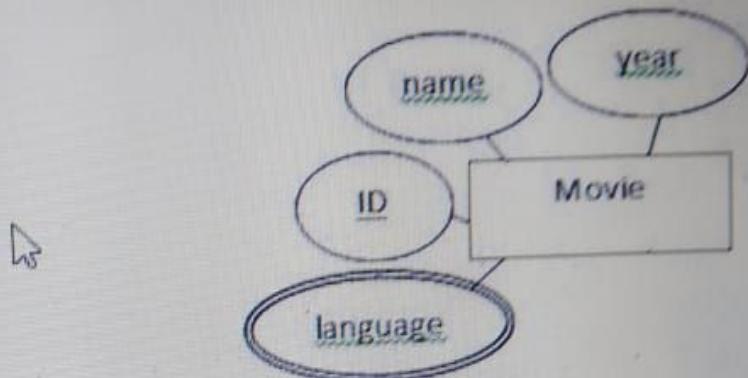
Select one:

- a. Reserves (ID, sno, theatreID, sno)
- b. Seat (ID, sno, position, type)
- c. Customer (sno, name, type)
- d. Theatre (ID, type, capacity)
- e. Show (ID, year, month, day, date, ticketprice)

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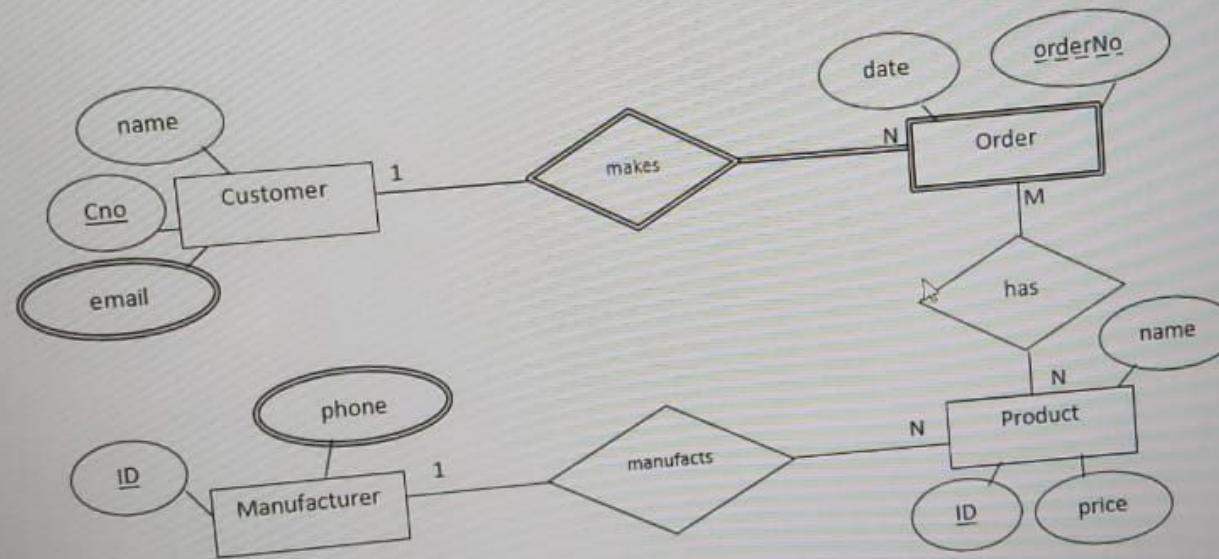
Select the correct answer when map the *Movie* entity to relational model



Select one:

- a. Movie (ID, name, year, language)
- b. Movie (ID, language, name, year)
- c. Movie (ID, name, year)
Movie_language (ID, language)
- d. Movie (ID, name, year)
Movie_language (ID, language)
- e. Movie (ID, name, year, language)
Movie_language (ID, language)

How many tables can be obtained if the following ER diagram maps to the relational model?



Select one:

- a.

≡ Quiz navigation

INSTRUCTIONS

1

EXAM QUESTIONS

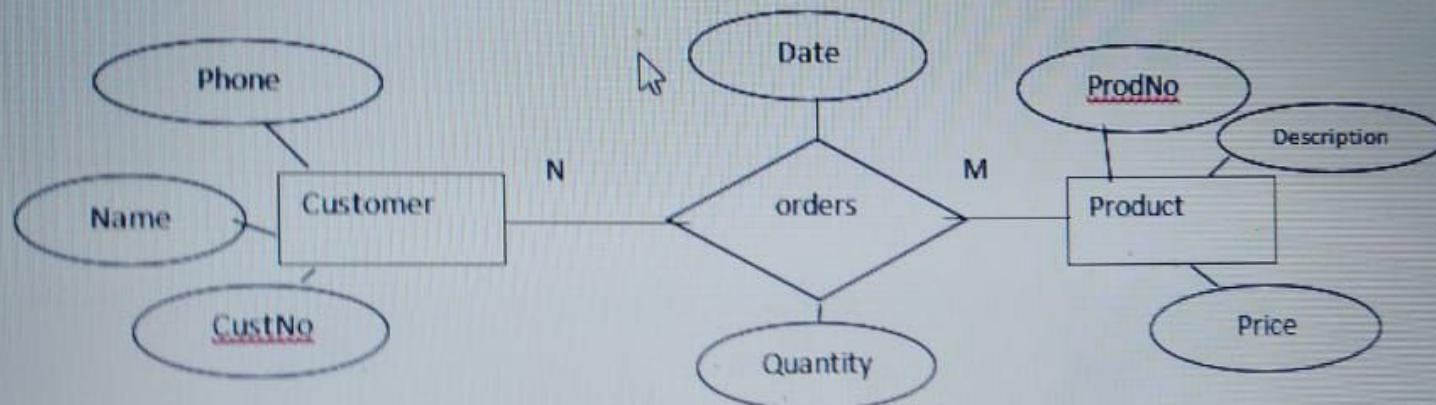
1	2	3	4
9	10	11	12
17	18	19	20
25	26	27	28

COMMENTS AND C

31

Finish attempt ...

Time left 1:36:17



Select one or more:

- a. Quantity and Date are Descriptive attributes
- b. Database created with this ER design can keep only the most recent information of the orders placed by a customer for a product
- c. Cardinality ratio of the relationship is M:N
- d. Database created with this ER design can keep history information of the orders placed by a customer for a product
- e. Price of a product is subjective. It changes based on the customer type

8

b.

10

c.

9

d.



7

e.

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Which shows the attributes in the *Reserves* relation after map the following ER model into the relational model?

```
ER diagram description:
- Entity Show has attributes month, year, date, day, ID, and ticketprice.
- Entity Theatre has attributes capacity, ID, and type.
- Entity Customer has attributes name and sno.
- A Reserves relationship connects Show and Theatre, with attributes cno, showID, TID, and sno.
- A Reserves relationship connects Show and Customer, with attributes cno, showID, TID, and sno.
```

Select one:

- a. Reserves (cno, showID, TID, sno)
- b. Reserves (showID, TID, cno)
- c. Reserves (cno, showID, TID, sno)
- d. Reserves (cno, showID, TID)
- e. Reserves (cno, showID, TID)

The table below shows the project information of 'Oracle pvt Ltd'.

Emp_Proj

Emp_ID	Project_No	Project_Name	Start_Date	Emp_Position	Name	Hours	Rate
E003	P2	Millers	12/1/2020	Member	James	25	345
E001	P1	Millers	12/1/2020	Coordinator	K.T.Roy	15	450
E002	P2	Cobler	01/05/2018	Advertiser	A.Smith	20	400
E001	P2	Cobler	01/05/2018	Advertiser	K.T.Roy	20	400
E003	P3	Smak	01/05/2019	Coordinator	James	34	450

Primary Key is (Emp_ID, Project No)

Answer the following questions using the table and dependencies given below on the Emp_Proj table.

Emp_ID \rightarrow Name

Project_No \rightarrow Project_Name, Start_Date

Emp_Position \rightarrow Rate



1. Which normal form is the relation in?

- a. First Normal Form
- b. Second Normal Form
- c. Third Normal Form
- d. Unnormalized Form
- e. BCNF



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Question 8

Not yet answered

Marked out of
2.00

Flag question

Data Manipulation Language (DML) is/are used to _____

Select one or more:

- a. Define the schema
- b. Modify data in the database
- c. Define the internal level
- d. Access data in the database
- e. Define packages and indexes

[Next page](#)

≡ Quiz

INSTRUCT

1

EXAM QUE

1

2

9 10

17 18

25 26

COMMENTS A

31

Finish attempt

Time left 1:32:31

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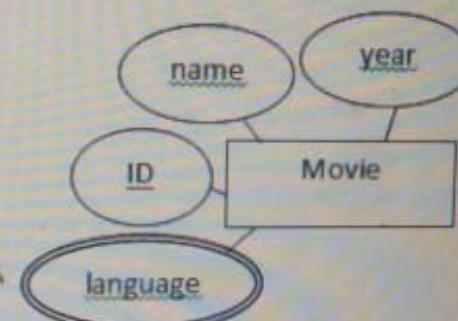
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Flag question

Select the correct answer when map the *Movie* entity to relational model

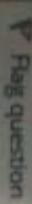


Select one:

- a. Movie (ID, language, name, year)
- b. Movie (ID, name, year, language)
Movie_language (ID, language)
- c. Movie (ID, name, year)
Movie_language (ID, language)
- d. Movie (ID, name, year)
Movie_language (ID, language)
- e. Movie (ID, name, year, language)

Question 6

Not yet answered

Marked out of
3.00

Select the correct answer for the missing part of the following statement.

When execute the following Update statement

Choose...

• constraint will be violated.

Key

None of the given

Domain

Referential Integrity

Entity Integrity

UPDATE Department**SET dno = 3****WHERE dNo = 2;****Employee**

empNo	name	salary (US\$)	dno
EM1201	Sandra	400	1
EM2390	Alex	315	1
EM2213	John	560	2

Department

dNo	name
1	HR
2	Finance

Question 12

Not yet answered

Marked out of
3.00

Flag question

Select the correct answer for the missing part of the following statement.

When execute the following Update statement

```
UPDATE Department
```

```
SET dno = 3
```

```
WHERE dNo = 2;
```

- Choose...
- Choose...
- Domain
- Referential Integrity
- Entity Integrity
- Key
- None of the given

**Employee**

empNo	name	salary (US\$)	dno
EM1201	Sandra	400	1
EM2390	Alex	315	1
EM2213	John	560	2

Department

dNo	name
1	HR
2	Finance



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Question 5

Not yet answered

Marked out of
2.00

Flag question

Information systems are

Select one:

- a.
Making decisions.
- b. used by IT professionals
- c.
Disseminateing information.
- d.
Computerized.
- e.
Essential for businesses.

Consider the relation Inventory (PartNo, Warehouse, Location, Qty-on-hand, Weight, Colour) with the following functional dependencies.

FD1 : PartNo \rightarrow Weight, Colour

FD2 : (PartNo , Warehouse) \rightarrow Qty_on_hand

FD3: Warehouse \rightarrow Location

Which of the following statements is/are true?

Select one or more:

- a. The best normal form that Inventory satisfies is 1NF
- b. The functional dependency FD1 violates 2NF.
- c. The functional dependency FD2 violates 1NF
- d. The functional dependency FD3 violates 3NF.
- e. The best normal form that Inventory satisfies is 2NF

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You are given the following details as requirements for the database for the Royal League Rugby club (RLR). RLR has many teams, and each team has a unique name, an originating city, a coach, a captain (captain of the team is also a player), and a set of players. Each player in RLR belongs to only one team. A player has a name, a position in the team and a skill level. One game is played between two teams (host team and guest teams). And it is necessary to keep track of the date the game was played, and the score of the game (such as 2 to 4).

Construct the ER diagram for the RLR database and select the correct answer name (a, b, ...) for the below three questions from the following given drop down menu.

1. Which of the following are correct Entities for the ER diagram?

- a. Team, Player
- b. Game, Team
- c. Score, Team, Player
- d. Name, Team, Game
- e. Player, Game

2. Which of the following are correct Relationships for the ER diagram?

- a. Team <includes> Player, Team <plays Games with> Team, Team <captains> Player



on 9

et answered
ed out of

ag question

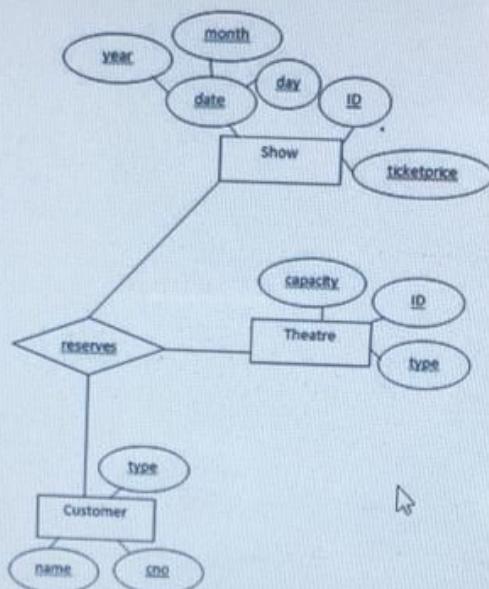
A bank provides an online banking system to their customers with the hope of delivering better performance and responding to its customers & suppliers in real-time. So that they plan to improve their customer base. Which of the following strategic objectives that they would achieve?

Select one:

- a.
Operational excellence
- b. New products, services, and business models
- c.
Improved decision making
- d. Survival
- e.
Competitive advantage

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Which shows the attributes in the *Reserves* relation after map the following ER model into the relational model?



Select one:

- a. Reserves (cno, showID, TID, sno)
- b. Reserves (showID, TID, cno)
- c. Reserves (cno, showID, TID, sno)
- d. Reserves (cno, showID, TID)
- e. Reserves (cno, showID, TID)

MediLab is a pharmacy that purchases medicine and pharmaceutical items from TotalCare, a wholesale pharmaceutical product dealer. The pharmaceutical inventory system at MediLab maintains the Medicine-ID, Generic-name, Brand-name, and the Quantity-In-Hand of medicines. At the end of each month the system generates reports on Stock-In-Hand of all medicines in the inventory (Stock report), the Quantity-Purchased during the month (Stock receives report) and the Quantity-Sold during the month (Monthly sales report). Once a sale or a purchase is made the medicine's Qty-In-Hand will be updated in the inventory system.

A. The **inputs** captured by the input function of the MediLab's inventory control system are;

Qty-Sold, Qty-Purchased

B. The **outputs** presented by the output function of the inventory control system are;

Qty-Purchased and Qty-In-Hand

C. The **stored data** of the inventory control system would be; Stock report, Stock receives report, Monthly sales report

D. The **subsystems (processes)** of the MediLab inventory control system described above are;

Updating inventory and generating monthly reports



Online Exams

Sri Lanka Institute of Information

tion 8

yet answered

ced out of

flag question

Information systems are

Select one:

- a.
Essential for businesses.
- b.
Computerized.
- c.
Disseminateing information.
- d. used by IT professionals
- e.
Making decisions.



Online Exams

Sri Lanka Institute of Information Technology

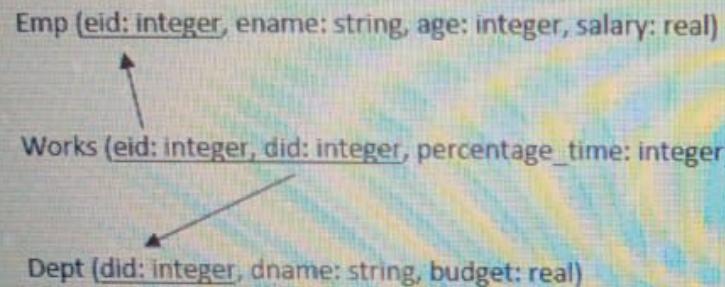
Dependency preserving property is not guaranteed in

Select one:

- a. Second Normal Form
- b. BCNF
- c. First Normal Form
- d. 3NF and BCNF
- e.

Third Normal Form

Consider the following schema which provides information about employees and departments



Find the most suitable SQL query for the given question.

Find the number of employees in each department

Select one:

- a. SELECT did, ALL(*) FROM Works GROUP BY did;
- b. SELECT did, COUNT(*) FROM Works GROUP BY did;
- c. SELECT COUNT(*) FROM Works;
- d. All queries have syntax errors
- e. SELECT did, COUNT(eid) FROM Works GROUP BY did;

≡ Q

INSTR

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EXAM C

1

8

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22 23

29 30

COMMENT

31

Finish attempt

Time left 1:30

Online Exams

Sri Lanka Institute of Information Technology

Dependency preserving property is not guaranteed in

Select one:

- a.
Third Normal Form
- b. 3NF and BCNF
- c. BCNF
- d. First Normal Form
- e. Second Normal Form



ace



Question 7

Not yet answered

Marked out of
6.00

Flag question

MediLab is a pharmacy that purchases medicine and pharmaceutical items from TotalCare, a wholesale pharmaceutical product dealer. The pharmaceutical inventory system at MediLab maintains the Medicine-ID, Generic-name, Brand-name, and the Quantity-In-Hand of medicines. At the end of each month the system generates reports on Stock-In-Hand of all medicines in the inventory (Stock report), the Quantity-Purchased during the month (Stock receives report) and the Quantity-Sold during the month (Monthly sales report). Once a sale or a purchase is made the medicine's Qty-In-Hand will be updated in the inventory system.

- A. The **inputs** captured by the input function of the MediLab's inventory control system are:

Choose...



- B. The **outputs** presented by the output function of the inventory control system are:

Choose...



- C. The **stored data** of the inventory control system would be:

Choose...



- D. The **subsystems (processes)** of the MediLab inventory control system described above are:

Choose...



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



Select one or more:

- a. Cardinality ratio for the relationship is 1:M
- b. It is not a Binary relationship
- c. One entity in the Course entity-set can make at most one relationship instance with the other side
- d. The participation of the Student entity is Total
- e. Each Course must have a student registered in it

6
answered
out of
question

Select the correct answer for the missing part of the following statement.

When executing an INSERT INTO command to insert a new record to a following given table it is possible for

Choose... ▼ constraint to get violated.

Employee

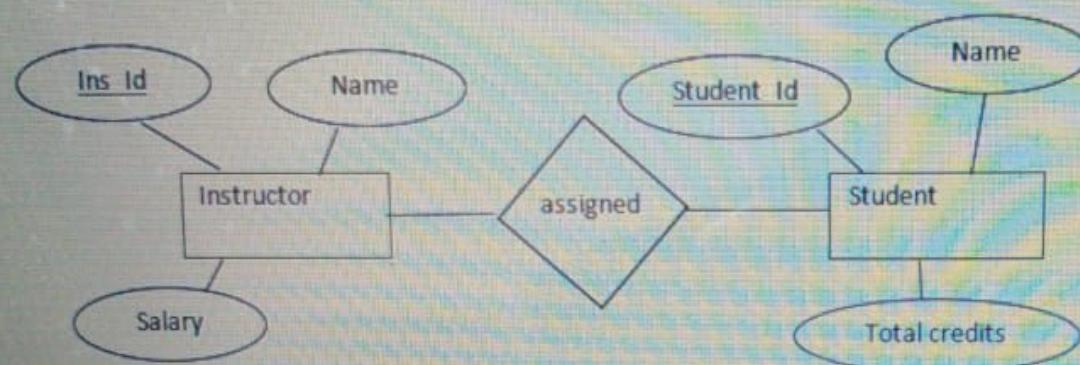
empNo	name	salary (US\$)	dno
EM1201	Sandra	400	1
EM2390	Alex	315	1
EM2213	John	560	2

Department

dNo	name
1	HR
2	Finance

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

'Only one instructor is assigned to each student. An instructor will be allocated to many students.'



Select one:

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

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Time left: 1

Select the correct answer for the missing

When executing an INSERT INTO command

Choose...

Choose...

Referential Integrity

Entity Integrity

Key

Domain

All given

constraint to get

		salary (US\$)	dno
EM1201	Sandra	400	1
EM2390	Alex	315	1
EM2213	John	560	2

Department

dNo	name
	HR
	Finance



Online Exams

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MediLab is a pharmacy that purchases medicine and pharmaceutical items from TotalCare, a product dealer. The pharmaceutical inventory system at MediLab maintains the Medicine-ID, Grade and the Quantity-In-Hand of medicines. At the end of each month the system generates reports on medicines in the inventory (Stock report), the Quantity-Purchased during the month (Stock received), Quantity-Sold during the month (Monthly sales report). Once a sale or a purchase is made the records be updated in the inventory system.

A. The **inputs** captured by the input function of the MediLab's inventory control system are:

Choose...

B. The **outputs** presented by the output function of the inventory control system are:

Choose...

C. The **stored data** of the inventory control system would be:

Choose...

D. The **subsystems (processes)** of the MediLab inventory control system described above are:

Choose...

Question 12

Not yet answered

Marked out of
4.00

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

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INSTRUCTIONS

EXAM QUESTION

1 2 3

4 5 6 7 8 9 10

11 12 13 14 15 16 17

18 19 20 21 22 23 24

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37 38 39 40

42 43 44 45 46 47

49 50 51 52 53 54

57 58 59 60 61 62

Question 12

Not yet answered

Marked out of
4.00

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



Online Exams

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stion

Uber is a food delivery company that operates in Sri Lanka. Food merchandisers add various food items to the Uber food delivery system. Customers make online orders to food merchandisers. Drivers are alerted through the food delivery system about the delivery jobs. They accept the online job, pick the food from the merchandizer, and deliver to the customers. At the end of each day Manager at Uber company receives a daily transaction report.

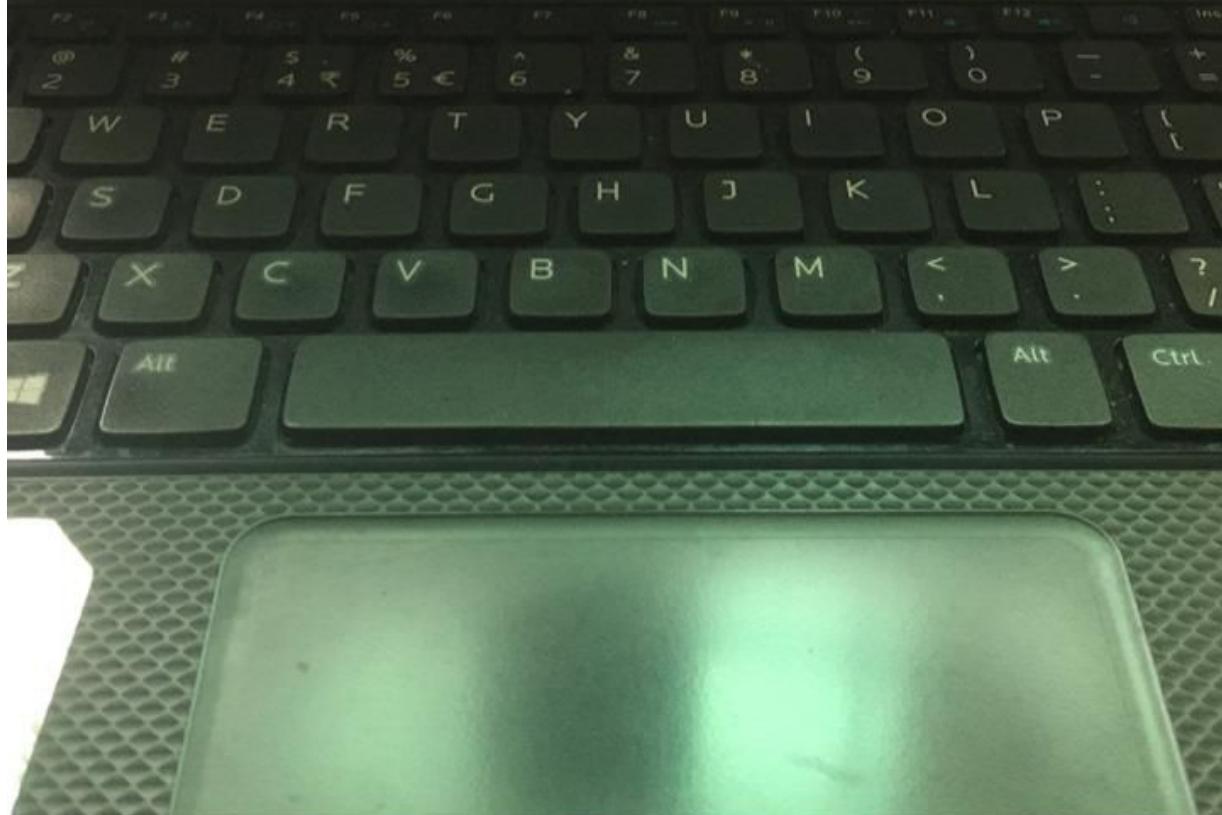
Who is/are the direct users of the Uber food delivery system?

Select one or more:

- a.
Uber manager
- b.
Uber driver
- c. Manager of the merchandiser
- d.
Merchandiser
- e.
Customer

[Next page](#)

DELL



Components of a Computer based Information System does not include,

Select one:

- a.
Information
- b.
Stored data
- c.
Hardware
- d. Procedures
- e.
Software



Next Step

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on

Which of the following can be considered as Candidate Keys for the following Company table?
Company (RegistrationNo, Name, Address, PhoneNumber, E-mail, Type)

Select one or more:

- a. E-mail, Type
- b. Name
- c. E-mail
- d. RegistrationNo
- e. Name, E-mail



Online Exams

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A relation R which is in 2NF is also in 3NF.

Select one:

- True
- False

DELL

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The table below shows the project information of 'Oracle pvt Ltd'.

Emp_Proj

Emp_ID	Project_No	Project_Name	Start_Date	Emp_Position	Name	Hours	Rate
E003	P2	Millers	12/1/2020	Member	James	25	30
E001	P1	Millers	12/1/2020	Coordinator	K.T.Roy	15	40
E002	P2	Cobler	01/05/2018	Advertiser	A.Smith	20	40
E001	P2	Cobler	01/05/2018	Advertiser	K.T.Roy	20	40
E003	P3	Smak	01/05/2019	Coordinator	James	34	45

Primary Key is (Emp_ID, Project_No)

Answer the following questions using the table and dependencies given below on the Emp_Proj table.

Emp_ID \rightarrow Name

Project_No \rightarrow Project_Name, Start_Date

Emp_Position \rightarrow Rate

1. Which normal form is the relation in?

- a. First Normal Form
- b. Second Normal Form
- c. Third Normal Form
- d. Unnormalized Form
- e. BCNF

2. What are the 2nd Normal Form relations for Emp_Proj table.

a. P1/Emp_ID, Name

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The table below shows the project information of 'Oracle pvt Ltd'.

Emp_Proj

Emp_ID	Project_No	Project_Name	Start_Date	Emp_Position	Name	Hours	Rate
E003	P2	Millers	12/1/2020	Member	James	25	345
E001	P1	Millers	12/1/2020	Coordinator	K.T.Roy	15	450
E002	P2	Cobler	01/05/2018	Advertiser	A.Smith	20	400
E001	P2	Cobler	01/05/2018	Advertiser	K.T.Roy	20	400
E003	P3	Smak	01/05/2019	Coordinator	James	34	450

Primary Key is (Emp_ID, Project No)

Answer the following questions using the table and dependencies given below on the Emp_Proj table.

Emp_ID \rightarrow Name

Project_No \rightarrow Project_Name, Start_Date

Emp_Position \rightarrow Rate

1. Which normal form is the relation in?

- a. First Normal Form
- b. Second Normal Form
- c. Third Normal Form
- d. Unnormalized Form
- e. BCNF

2. What are the 2nd Normal Form relations for Emp_Proj table.

3. Primary ID Name

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The table below shows the project information of 'Oracle pvt Ltd'.

Emp_Proj

Emp_ID	Project_No	Project_Name	Start_Date	Emp_Position	Name	Hours	Rate
E003	P2	Millers	12/1/2020	Member	James	25	345
E001	P1	Millers	12/1/2020	Coordinator	K.T.Roy	15	450
E002	P2	Cobler	01/05/2018	Advertiser	A.Smith	20	400
E001	P2	Cobler	01/05/2018	Advertiser	K.T.Roy	20	400
E003	P3	Smak	01/05/2019	Coordinator	James	34	450

Primary Key is (Emp_ID, Project No)

Answer the following questions using the table and dependencies given below on the Emp_Proj table.

Emp_ID \rightarrow Name

Project_No \rightarrow Project_Name, Start_Date

Emp_Position \rightarrow Rate

1. Which normal form is the relation in?

- a. First Normal Form
- b. Second Normal Form
- c. Third Normal Form
- d. Unnormalized Form
- e. BCNF

2. What are the 2nd Normal Form relations for Emp_Proj table.

- a. R1(Emp_ID, Name)



Online Exams

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Question 4

Not yet answered

Marked out of
2.00[Flag question](#)

Consider the relation Inventory (PartNo, Warehouse, Location, Qty-on-hand, Weight, Colour) with the following functional dependencies.

FD1 : PartNo \rightarrow Weight, Colour

FD2 : (PartNo , Warehouse) \rightarrow Qty_on_hand

FD3: Warehouse \rightarrow Location

Which of the following statements is/are true?

Select one or more:

- a. The best normal form that Inventory satisfies is 2NF
- b. The functional dependency FD3 violates 3NF.
- c. The functional dependency FD2 violates 1NF
- d. The best normal form that Inventory satisfies is 1NF
- e. The functional dependency FD1 violates 2NF.

[Next page](#)**≡ Quiz navigation****INSTRUCTIONS****EXAM QUESTIONS**

1	2	3	4
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17	18	19	20
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COMMENTS AND CONCERN[Finish attempt ...](#)

Time left 1:15:59

Question 11

Not yet answered

Marked out of
0.00

* Flag question

Uber is a food delivery company that operates in Sri Lanka. Food merchandisers add various food items to the Uber food delivery system. Customers make online orders to food merchandisers. Drivers are alerted through the food delivery system about the delivery jobs. They accept the online job, pick the food from the merchandizer, and deliver to the customers. At the end of each day Manager at Uber company receives a daily transaction report.

Who is/are the direct users of the Uber food delivery system?

Select one or more:

- a. Manager of the merchandiser
- b. Merchandiser
- c. Customer
- d. Uber manager
- e. Uber driver

Next page

Finish

- b. Second Normal Form
- c. Third Normal Form
- d. Unnormalized Form
- e. BCNF

2. What are the 2nd Normal Form relations for Emp_Proj table.

- a. R1(Emp_ID, Name)
R2(Project_No, Project_Name, Start_Date)
R3 (Emp_ID, Project_No, Emp_Position, hours, Rate)
- b. R2(Emp_ID,Project_No, Project_Name, Start_Date, Name)
R3 (Emp_ID, Project_No, Emp_Position, hours, Rate)
- c. R1(Emp_ID, Name)
R2(Project_No, Project_Name, Start_Date)
R3 (Emp_Position, Rate)
R4(Emp_ID, Project_No, Emp_Position, hours)
- d. R1(Emp_ID, Name)
R2 (Project_No, Project_Name, Start_Date)
R3 (Emp_Position, Rate)
- e. R1(Emp_ID,Project_No, Project_Name, Start_Date, Emp_Position, Name, Hours, Rate)

3. What are the 3rd Normal Form relations for Emp_Proj table.

3. What are the 3rd Normal Form relations for Emp_Proj table.

a. R1(Emp_ID, Name)

R2(Project_No, Project_Name, Start_Date)

R3 (Emp_Position, Rate)

R4(Emp_ID, Project_No, Emp_Position, hours,Rate)

b. R1(Emp_ID, Name)

R2(Project_No, Project_Name, Start_Date)

R3 (Emp_ID, Project_No, Emp_Position, hours,Rate)

c. R1 (Emp_Position, Rate)

R2(Emp_ID, Project_No, Emp_Position, hours,Name, Project_Name, Start_Date)

d. R1(Emp_ID, Name)

R2(Project_No, Project_Name, Start_Date)

R3 (Emp_Position, Rate)

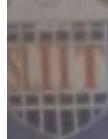
R4(Emp_ID, Project_No, Emp_Position, hours)

e. R1(Emp_ID,Project_No,Project_Name,Start_Date,Emp_Position,Name,Hours,Rate)

Select the correct answer name for the above questions from the following.

1. Which normal form is the relation in?





Select the correct answer for the missing part of the following statement.

When execute the following insert statement:

INSERT INTO Department VALUES (2, 'Marketi

- Choose...
- Choose...
- Key
- Check
- Domain
- Entity Integrity
- Referential Integrity

Employee

empNo	name	salary (US\$)	dno
EM1201	Sandra	400	1
EM2390	Alex	315	1
EM2213	John	560	2

Department

dNo	name
1	HR
2	Finance

DELL



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10

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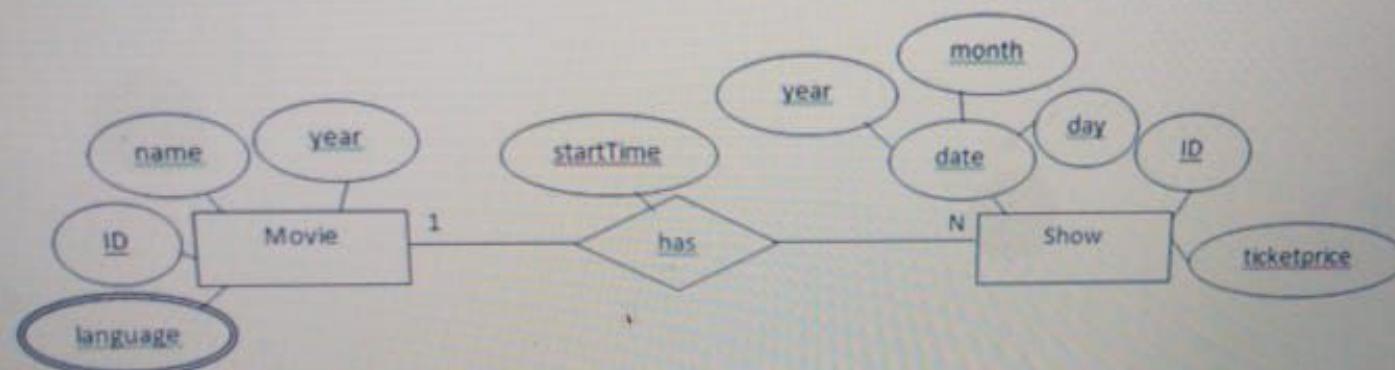
question

A table is in 3NF if it is in 2NF and if it has no

Select one:

- a. non trivial functional dependencies
- b. functional dependencies
- c. transitive dependencies
- d. trivial functional dependencies
- e. multivalued attributes

Which relation has the descriptive attribute 'startTime' after map the following ER model into the relational model?



Select one:

- a. MovieShow
- b. Movie
- c. None of the given answers
- d. Movie_language
- e. Show



Online Exams

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5

Answered
of
question

Which of the following is/are false related to Internal level of a database management system?

Select one or more:

- a. Describes Community view of the database
- b. Describes Internal users view of the database
- c. Describes data types, entities, relationships
- d. Describes Physical storage structure of the database
- e. Describes unrelated details of the database

Next page



Online Exams

Sri Lanka Institute of Information Technology

11

answered

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question

Which of the following is/are false related to Internal level of a database management system?

Select one or more:

- a. Describes Internal users view of the database
- b. Describes data types, entities, relationships
- c. Describes unrelated details of the database
- d. Describes Physical storage structure of the database
- e. Describes Community view of the database

Next

Consider the relation Inventory (PartNo, Warehouse, Location, Qty-on-hand, Weight, Colour) with the following functional dependencies.

FD1 : PartNo \rightarrow Weight, Colour

FD2 : (PartNo , Warehouse) \rightarrow Qty_on_hand

FD3: Warehouse \rightarrow Location

Which of the following statements is/are true?

Select one or more:

- a. The best normal form that Inventory satisfies is 1NF
- b. The best normal form that Inventory satisfies is 2NF
- c. The functional dependency FD1 violates 2NF.
- d. The functional dependency FD3 violates 3NF.
- e. The functional dependency FD2 violates 1NF



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Data Manipulation Language (DML) is/are used to _____

Select one or more:

- a. Define packages and indexes
- b. Define the internal level
- c. Access data in the database
- d. Define the schema
- e. Modify data in the database

examveda.com/a-table-is-in-3nf-when-it-is-in-2nf-and-contains-no-91782/

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 **nurul natasha**
2 years ago

A table is in 3NF when it is in 2NF and contains no

- A. Functional Dependencies**
- B. Transitive Dependencies**
- C. Trivial Functional Dependency**
- D. Multivalued Dependencies**

Answer: Option B

Join The Discussion 



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Question 13

yet answered

Marked out of
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Flag question

In a schema in the 2NF

Select one or more:

- a. No multivalued attributes exist.
- b. No functional dependencies exist.
- c. No partial functional dependencies exist
- d. No transitive dependancies exist
- e. No partial multivalued dependencies exist.



Question 17

Not yet answered

Marked out of
4.00

Flag question

Consider the following schema which provides information about items.

Item (item_no, supplier_no, item_name, quantity_in_hand, reorder_level)

Find the most suitable SQL query for the given question.

Find the total number of items supplied by each supplier. Display the item number and supplier number.

Select one:

a.

Select COUNT(item_no) as 'Total no of items', supplier_no From Item Group by supplier_no, item_no

b.

Select SUM (item_no) as 'Total no of items', supplier_no From Item Group by supplier_no

c.

Select COUNT(item_no) as 'Total no of items', supplier_no From Item

d.

Select SUM (item_no) as 'Total no of items', supplier_no From Item Group by supplier_no, item_no

e.

Select COUNT(item_no) as 'Total no of items', supplier_no From Item Group by supplier_no



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Online Exams

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Question 13

yet answered

Marked out of

Flag question

In a schema in the 2NF

Select one or more:

- a. No multivalued attributes exist.
- b. No functional dependencies exist.
- c. No partial functional dependencies exist
- d. No transitive dependencies exist
- e. No partial multivalued dependencies exist.

Select the correct answer for the missing part of the following statement.

When execute the following insert statement

INSERT INTO Department VALUES (2, 'Marketi

Referential Integrity

Choose...

Key

Check

Domain

Entity Integrity

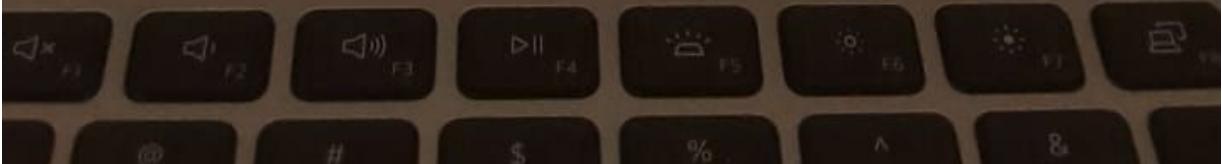
Referential Integrity

Employee

empNo	name	salary (US\$)	dno
EM1201	Sandra	400	1
EM2390	Alex	315	1
EM2213	John	560	2

Department

dNo	name
1	HR
2	Finance



Which of the following is the highest normal form the relation Patient_Info can be classified?

Patient_Info (patient, consultant, hospital, address, date, time)

patient, consultant \rightarrow hospital, address, date, time

hospital \rightarrow address

Choose...

Choose...

Unnormalized/0NF

3NF

1NF

4NF/BCNF

2NF

- Team <plays> Game, Team <includes> Player
Player <plays> Game, Team <captains> Player
Team <plays Games with> Team, Team <captains> Player
Team <includes> Player, Team <captains> Player
- c. Player <plays> Game, Team <includes> Player
 - d. Team <plays Games with> Team, Team <captains> Player
 - e. Team <includes> Player, Team <captains> Player

3. Which of the following statements is false?

- a. 'Team' and 'Player' are two entities in the ER diagram
- b. 'Team' entity participates in a Recursive relationship
- c. 'Game' is a Weak entity in the ER diagram
- d. The 'Date' the game was played becomes a descriptive attribute
- e. None of the above

1. Which of the following are correct Entities for the ER diagram?

 a

2. Which of the following are correct Relationships for the ER diagram?

 b

3. Which of the following statements is false?

 b



Qn 13

answered

1 out of

flag question

Cloud based systems do not provide,

Select one:

- a. Entire computing infrastructure over the Internet.
- b. Working from anywhere if the internet facility is available
- c. Personalized software which specifically developed for the firms.
- d. Capability of purchasing computing capacity on-demand.
- e. Cloud based backup and recovery solutions.

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Online Exams

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Which of the following is the highest normal form the relation Student_Info can be classified?

Student_Info (StdSSN, OfferNo, StdCity, OffTerm, OffYear, GPA, CourseNo, Credits)

StdSSN,OfferNo → StdCity,OffTerm,OffYear,GPA,CourseNo,Credits

StdSSN → StdCity, GPA

StdCity → OffTerm

- Choose...
- Choose...
- Unnormalized/0NF
- 1NF
- 2NF
- 3NF

4NF/BCNF

Question 9

Not yet answered

Marked out of
4.00

Flag question

Consider the following schema and complete the answer for the following given SQL query by selecting the most appropriate value.

Note: Drag and Drop the correct value from the relevant (color) category

EMPLOYEE (employee_ID , NAME , EMAIL , PHONE_NUMBER , HIRE_DATE , SALARY , DESIGNATION , DEPARTMENT_ID)

Write a query to display the employee IDs of the employees who works in the same department as the employee with ID 'emp345'

(

);

 SELECT FROM WHERE GROUP BY HAVING EMPLOYEE employee_ID name phone_number hire_date salary designation department_id = IN NOT IN >= <= number 'emp345' employee_ID 'ID'

Quiz nav

INSTRUCTIONS

1

EXAM QUESTIO

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COMMENTS AND

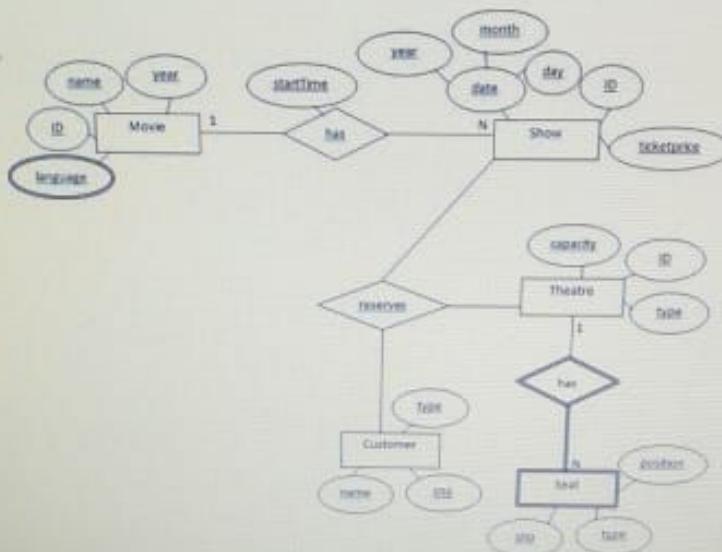
31

Finish attempt

Time left 1:17:50



Which of the following is/ are **true** about the schema resulted after mapping the below ER diagram to the relational model?



Select one or more:

- a. Movie table will contain 3 attributes
- b. Seat table will contain 4 attributes
- c. The relation containing language attribute has a composite primary key
- d. The relation containing language attribute has 2 foreign keys
- e. Customer table will contain 4 attributes

W E R T Y U I O P
S D F G H J K L

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:

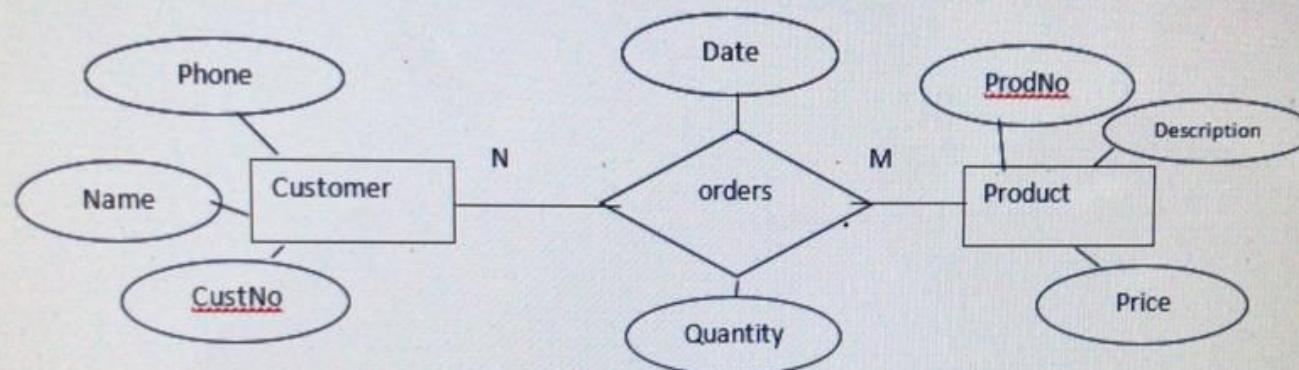
- a.
SELECT e.ename FROM emp e, works w, Dept d WHERE e.eid=w.eid AND w.did=d.did HAVING d.budget>50000;
- b. SELECT e.ename FROM emp e, works w, Dept d WHERE e.eid=w.eid AND w.did=d.did AND d.budget>50000;
- c.
SELECT e.ename FROM emp e, Dept d WHERE d.budget>50000;
- d. All queries have syntax errors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

Not yet answered

Marked out of
4.00

Flag question

What is true about the following ER diagram?



Select one or more:

- a. Database created with this ER design can keep history information of the orders placed by a customer for a product
- b. Price of a product is subjective. It changes based on the customer type
- c. Database created with this ER design can keep only the most recent information of the orders placed by a customer for a product
- d. Quantity and Date are Descriptive attributes
- e. Cardinality ratio of the relationship is M:N

Next page

Customer ID	Customer Name	Address	Phone Number	Date of Birth	Gender
CR000000000000000000000000000000	John Doe	123 Main Street	011-12345678	1990-01-01	Male

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Which shows the attributes in the *Reserves* relation after map the following ER model into the relational model?

```

    erDiagram
        {
            entity Show {
                attribute name string
                attribute date date
                attribute month month
                attribute id number
            }
            entity Theatre {
                attribute capacity number
                attribute id number
                attribute type string
            }
            entity Customer {
                attribute name string
                attribute sno number
            }
            entity Reserves {
                attribute showId number
                attribute TID number
                attribute cno number
                attribute sno number
            }
        }
        Show }o--o| Theatre : "reserves"
        Show }o--o| Customer : "reserves"
    
```

Select one:

- a. Reserves (showID, TID, cno)
- b. Reserves (cno, showID, TID)
- c. Reserves (cno, showID, TID, sno)
- d. Reserves (cno, showID, TID)
- e. Reserves (cno, showID, TID, sno)

Question 10

Not yet answered

Marked out of
3.00

Flag question

Select the correct answer for the missing part of the following statement.

When execute the following Update statement Choose... ▾ constraint will be violated.

UPDATE Department

SET dno = 3

WHERE dNo = 2;

Employee

empNo	name	salary (US\$)	dno
EM1201	Sandra	400	1
EM2390	Alex	315	1
EM2213	John	560	2

Department

dNo	name
1	HR
2	Finance



Online Exams

Sri Lanka Institute of Information Technology

Question 7

Not yet answered

Marked out of
2.00

Flag question

Data Manipulation Language (DML) is/are used to _____

Select one or more:

- a. Define packages and indexes
- b. Define the internal level
- c. Access data in the database
- d. Define the schema
- e. Modify data in the database

**Question 13**

Not yet answered

Marked out of
4.00

Flag question

Consider the following schema which provides information about items.

Item (item_no, supplier_no, item_name, quantity_in_hand, reorder_level)

Find the most suitable SQL query for the given question.

Find the total number of items supplied by each supplier. Display the item number and supplier number.

Select one:

- a.
Select COUNT(item_no) as 'Total no of items', supplier_no From Item Group by supplier_no, item_no
- b. Select COUNT(item_no) as 'Total no of items', supplier_no From Item
- c.
Select SUM(item_no) as 'Total no of items', supplier_no From Item Group by supplier_no
- d.
Select SUM(item_no) as 'Total no of items', supplier_no From Item Group by supplier_no, item_no
- e.
Select COUNT(item_no) as 'Total no of items', supplier_no From Item Group by supplier_no

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Module



Sri Lanka Institute of Information Technology

14

answered

out of

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 number of employees in each department

Select one:

- a. SELECT did, COUNT(*) FROM Works GROUP BY did;
- b. All queries have syntax errors
- c. SELECT COUNT(*) FROM Works;
- d. SELECT did, COUNT(eid) FROM Works GROUP BY eid;
- e. SELECT did, ALL(*) FROM Works GROUP BY did;



Online Exams

Sri Lanka Institute of Information Technology

Question 13

Not yet answered

Marked out of
1.00

Flag question

Database systems comprise of complex data structures. Thus, to make the system efficient for retrieval of data and reduce the complexity of the users, developers use the method of Data Abstraction.

- The Choose... is considered as the lowest level of the data abstraction which states how the data is stored in the database.
- Choose...
 - internal Level
 - External Level**
 - Logical Level
 - User Level

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b

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INSTRUCTIONS

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EXAM QUESTIONS

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COMMENTS AND CONCERN

31

Feedback attempt...

Time left 0:51:28

DELL



Online Exams

Sri Lanka Institute of Information Technology

Question 13

Not answered
0 out of
1 mark

View question

Database systems comprise of complex data structures. Thus, to make the system efficient for retrieval of data and reduce the complexity of the users, developers use the method of Data Abstraction.

- The Choose... is considered as the lowest level of the data abstraction which states how the data is stored in the database.
- Choose...
 - Internal Level
 - Conceptual Level
 - External Level
 - Logical Level
 - User Level

Next page

Physical level

Physical level: This is the **lowest level** of **data abstraction**. It describes how **data** is actually stored in **database**. You can get the complex **data** structure details at this **level**.

beginnersbook.com › 2015/04 › levels-of-abstraction-in-...
Data Abstraction in DBMS - BeginnersBook.com

people also ask

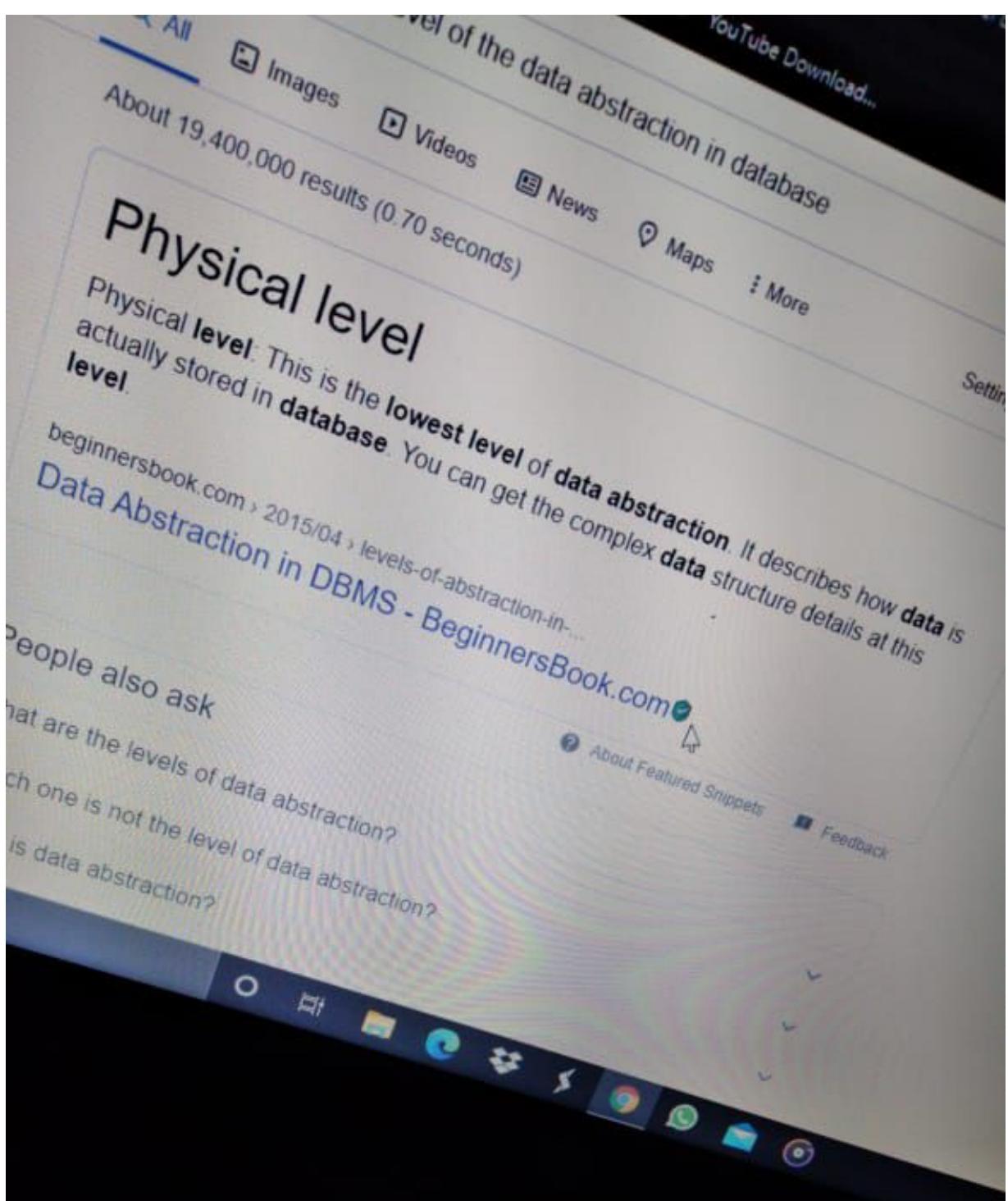
what are the levels of data abstraction?

which one is not the level of data abstraction?

is data abstraction?

more

5 6 7 8 9 0 T Y U I O P G H J V





Online Exams

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Question 20

Not yet answered

Marked out of
3.00

Flag question

- Employee(empID, firstName, lastName, joinDate, basicSalary, departID) PK: empID
- Consider the above Employee table and find the correct SQL Function that is necessary when writing the answer for the following SQL queries.
- A. Print the total number of employees in the Employee table:
- Choose... ▾
- B. Print the "firstName" from Employee table in Upper case:
- Choose... ▾
- C. Print the first three characters of "firstName" from Employee table:
- Choose... ▾



Online Exams

Sri Lanka Institute of Information Technology

20

Not yet answered

Marked out of
3.00

Flag question

Employee(empID, firstName, lastName, joinDate, basicSalary, departID) PK: empID

Consider the above Employee table and find the correct SQL Function that is necessary when writing the answer for the following SQL queries.

A. Print the total number of employees in the Employee table: TOTAL(parameter_A)

B. Print the "firstName" from Employee table in Upper case:

- Choose...
- Choose...
- | |
|---------------------|
| UPPER(parameter_A) |
| UPCASE(parameter_A) |
| CHANGE(parameter_A) |

C. Print the first three characters of "firstName" from Employee table

Choose...



Online Exams

Sri Lanka Institute of Information Technology

Question 21

Not yet answered
Marked out of
2.00

Flag question

Which of the following is/are false related to Internal level of a database management system?

Select one or more:

- a. Describes data types, entities, relationships
- b. Describes Community view of the database
- c. Describes Internal users view of the database
- d. Describes unrelated details of the database
- e. Describes Physical storage structure of the database



Question 19

Not yet answered

Marked out of
1.00

Flag question

Which of the following can be considered as Candidate Keys for the following Company table?
Company (RegistrationNo, Name, Address, PhoneNumber, E-mail, Type)

Select one or more:

- a. E-mail
- b. RegistrationNo
- c. Name
- d. E-mail, Type
- e. Name, E-mail

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INSTRUCTIONS

1

EXAM QUESTIONS

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COMMENTS AND CONCERN

31

Finish attempt ...

Time left 0:36:29

DELL



on 20

answered

out of

question

Which of the following is the highest normal form the relation Student_Info can be classified?

Student_Info (StdSSN, OfferNo, StdCity, OffTerm, OffYear, GPA, CourseNo, Credits)

StdSSN,OfferNo → StdCity,OffTerm,OffYear,GPA,CourseNo,Credits

StdSSN → StdCity, GPA

StdCity → OffTerm

- Choose...
- Choose...
- Unnormalized/0NF
- 1NF
- 2NF
- 3NF
- 4NF/BCNF

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Instructions

4

EXAM QUESTIONS

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COMMENTS AND ANSWERS

31

Finish attempt

Time left 0:35:31



Employee(empID, firstName, lastName, joinDate, basicSalary, departID) PK: empID

Consider the above Employee table and find the correct SQL Function that is necessary when writing the answer for the following SQL queries.

A. Print the total number of employees in the Employee table:

- Choose...
- Choose...
- COUNT(parameter_A)
- TOTAL(parameter_A)
- SUM(parameter_A)

B. Print the "firstName" from Employee table in Upper case:

C. Print the first three characters of "firstName" from Employee table:

Choose...



22

at answered
ed out of
ng question

MediLab is a pharmacy that purchases medicine and pharmaceutical items from TotalCare, a wholesale pharmaceutical product dealer. The pharmaceutical inventory system at MediLab maintains the Medicine-ID, Generic-name, Brand-name, and the Quantity-In-Hand of medicines. At the end of each month the system generates reports on Stock-In-Hand of all medicines in the inventory (Stock report), the Quantity-Purchased during the month (Stock receives report) and the Quantity-Sold during the month (Monthly sales report). Once a sale or a purchase is made the medicine's Qty-In-Hand will be updated in the inventory system.

A. The **inputs** captured by the input function of the MediLab's inventory control system are;

Qty-Sold, Qty-Purchased

B. The outputs presented by the output function of the inventory control system are;
Choose...

C. The stored data of the inventory control system would be; Choose...
D. The subsystems (processes) of the MediLab inventory control system described above are;
Choose...

Question 21

Not yet answered

Marked out of
4.00

Flag question

Consider the following schema which provides information about student results

Results (StudentNo, SubjectNo, Marks)

Find the most suitable SQL query for the below question.

Display the average marks for each subject



Select one:

- a. SELECT Marks FROM Results
- b. SELECT AVG(Marks) FROM Results ;
- c. SELECT AVG(Marks) FROM Results GROUP BY StudentNo;
- d. SELECT AVG(Marks) FROM Results GROUP BY Marks;
- e. SELECT MAX (Marks) FROM Results GROUP BY StudentNo;

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Finish attempt...

Time left: 03:11

COMMENTS AND CONCERN

31

DELL

Question 22

yet answered
locked out of
)

Flag question

MediLab is a pharmacy that purchases medicine and pharmaceutical items from TotalCare, a wholesale pharmaceutical product dealer. The pharmaceutical inventory system at MediLab maintains the Medicine-ID, Generic-name, Brand-name and the Quantity-In-Hand of medicines. At the end of each month the system generates reports on Stock-In-Hand of all medicines in the inventory (Stock report), the Quantity-Purchased during the month (Stock receives report) and the Quantity-Sold during the month (Monthly sales report). Once a sale or a purchase is made the medicine's Qty-In-Hand will be updated in the inventory system.

A. The **inputs** captured by the input function of the MediLab's inventory control system are;

Qty-Purchased and Qty-In-Hand

B. The **outputs** presented by the output function of the inventory control system are;

Choose...	Choose...	e: Choose...
Choose...	Choose...	Choose...
Qty-Sold, Qty-Purchased		
Monthly sales and TotalCare invoice		
Qty-Purchased and Qty-In-Hand		
Stock report, Stock receives report, Monthly sales report		
Medicine details and their Quantity-In-Hand		

Inventory system described above are;

Moodle

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Question 16

Not yet answered

Marked out of 4.00

Flag question

Consider the following schema which provides information about employees and departments

```
graph TD; Emp["Emp {eid: integer, ename: string, age: integer, salary: real}"] --> Works["Works {eid: integer, did: integer, percentage_time: integer}"]; Works --> Dept["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. All queries have syntax errors
- b. `SELECT e.ename FROM emp e, Dept d WHERE d.budget>50000;`
- c. `SELECT e.ename FROM emp e, works w, Dept d WHERE d.budget>50000;`
- d. `SELECT e.ename FROM emp e, works w, Dept d WHERE e.eid=w.eid AND w.did=d.did AND d.budget>50000;`
- e. `SELECT e.ename FROM emp e, works w, Dept d WHERE e.eid=w.eid AND w.did=d.did HAVING d.budget>50000;`

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INSTRUCTIONS

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COMMENTS AND CONCERNS

Finish attempt

Time left 1:08:54

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5

Answered

out of

question

Cloud based systems do not provide,

Select one:

- a. Capability of purchasing computing capacity on-demand.
- b. Cloud based backup and recovery solutions.
- c. Working from anywhere if the internet facility is available
- d. Entire computing infrastructure over the Internet.
- e. Personalized software which specifically developed for the firms.



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Question 10

Not yet answered

Marked out of
2.00

Flag question

A bank provides an online banking system to their customers with the hope of delivering better performance and responding to its customers & suppliers in real-time. So that they plan to improve their customer base. Which of the following strategic objectives that they would achieve?

Select one:

- a. New products, services, and business models
- b. Improved decision making
- c. Operational excellence
- d. Survival
- e. Competitive advantage



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Sri Lanka Institute of Information Technology

Which of the following is the highest normal form the relation Patient_Info can be classified?

Patient_Info (patient, consultant, hospital, address, date, time)

patient, consultant \rightarrow hospital, address, date, time

hospital \rightarrow address

Choose...

Choose...

3NF

Unnormalized/ONF

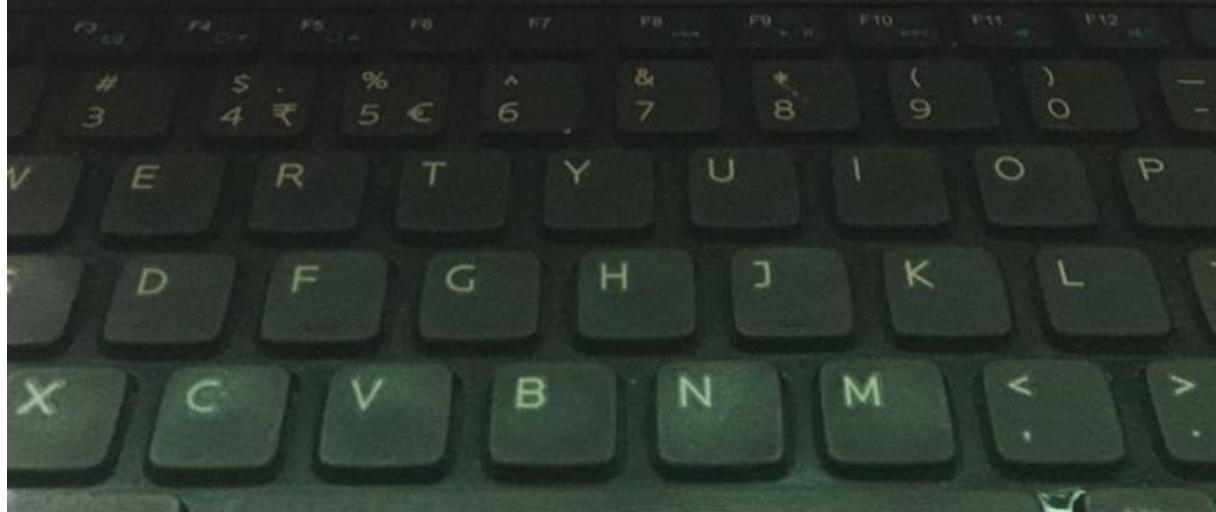
1NF

4NF/BCNF

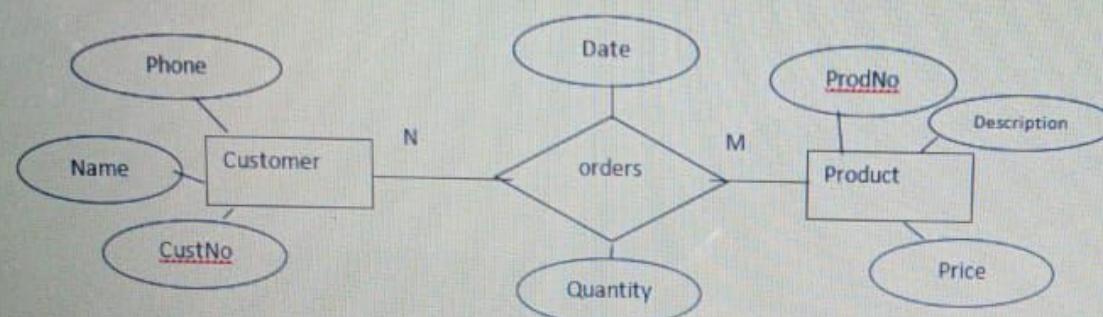
2NF

No

DELL



What is true about the following ER diagram?



Select one or more:

- a. Database created with this ER design can keep history information of the orders placed by a customer for a product
- b. Quantity and Date are Descriptive attributes
- c. Database created with this ER design can keep only the most recent information of the orders placed by a customer for a product
- d. Price of a product is subjective. It changes based on the customer type
- e. Cardinality ratio of the relationship is M:N

≡ Quiz navigation

INSTRUCTIONS

1

EXAM QUESTIONS

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COMMENTS AND CONCERNS

31

Finish attempt ...

Time left 1:00:09

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Online Exams

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Question 28

Not yet answered

Marked out of
0.00

Flag question

Enterprise systems have unique characteristics except,

Select one or more:

- a. CRM is one of the main elements.
- b. Office 365 is one of the main elements.
- c. Supporting the business processes of an organisation across functional boundaries exist within the organisation.
- d. Use internet technology to connect the business with suppliers, customers and partners.
- e. ERP is one of the main elements.

6
swered
it of
question

Sri Lanka Institute of Information Technology

Consider the following schema and complete the answer for the following given SQL query by selecting the most appropriate value.

Note: Drag and Drop the correct values from the relevant (color) category

EMPLOYEE (employee_ID , NAME , EMAIL , PHONE_NUMBER , HIRE_DATE , SALARY , DESIGNATION , DEPARTMENT_ID)

Write a query to display the designation of the employee who gets the minimum salary

(
);
SELECT FROM WHERE GROUP BY HAVING

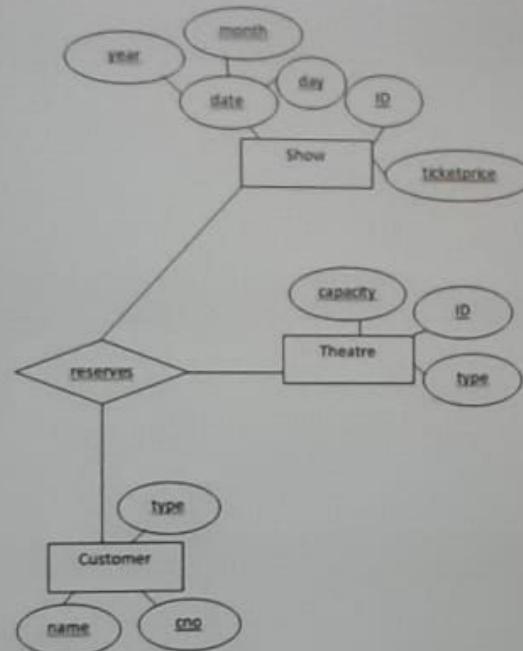
EMPLOYEE employee_ID name phone_number hire_date salary
designation department_id

<=ALL
<=ANY
>ANY

DELL

F2 F3 F4 F5 F7 F8 F9 F10 F11 F12
@ # \$ % ^ & * ()
2 3 4 5 6 7 8 9 0
W E R T Y U I O
S D F G H J K L

Which shows the attributes in the *Reserves* relation after map the following ER model into the relational model?



Select one:

- a. Reserves (showID, TID, cno)
- b. Reserves (cno, showID, TID, sno)
- c. Reserves (cno, showID, TID)
- d. Reserves (cno, showID, TID, sno)
- e. Reserves (cno, showID, TID)



Online Exams

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Question 23

Not yet answered

Marked out of
1.00

Flag question

An operator that is used in SQL WHERE clause to combine two conditions in a way that the result satisfies both conditions given.

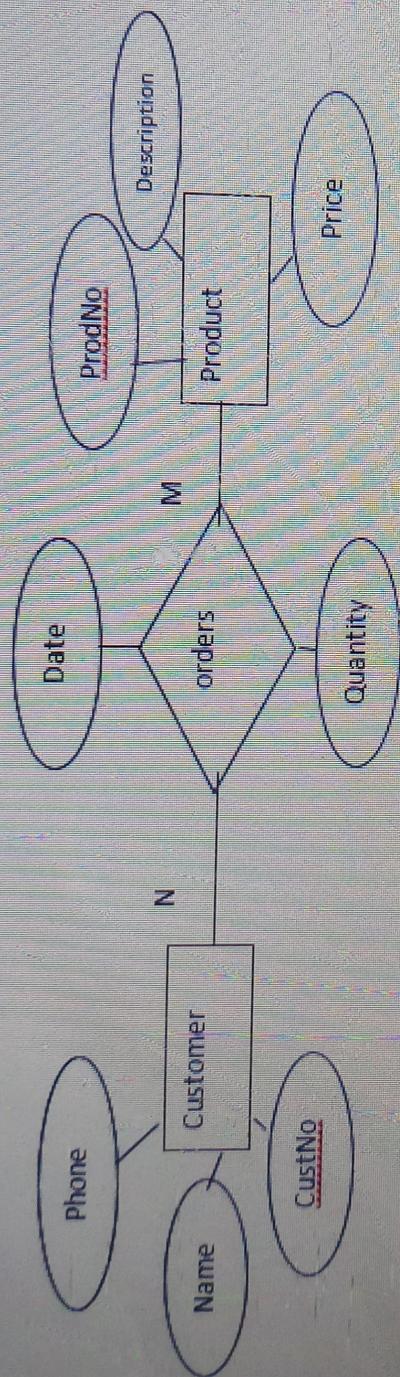
Note: Write only the operator name.

Answer:

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24

What is true about the following ER diagram?



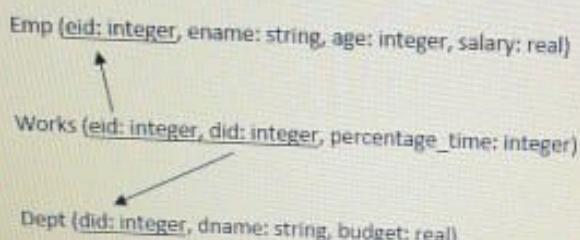
Select one or more:

- a. Price of a product is subjective. It changes based on the customer type
- b. Cardinality ratio of the relationship is M:N
- c. Database created with this ER design can keep history information of the orders placed by a customer for a product
- d. Quantity and Date are Descriptive attributes
- e. Database created with this ER design can keep only the most recent information of the orders placed by a customer for a product

Online Exams

Sri Lanka Institute of Information Technology

Consider the following schema which provides information about employees and departments



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



Question 23

Not yet answered

Marked out of
2.00

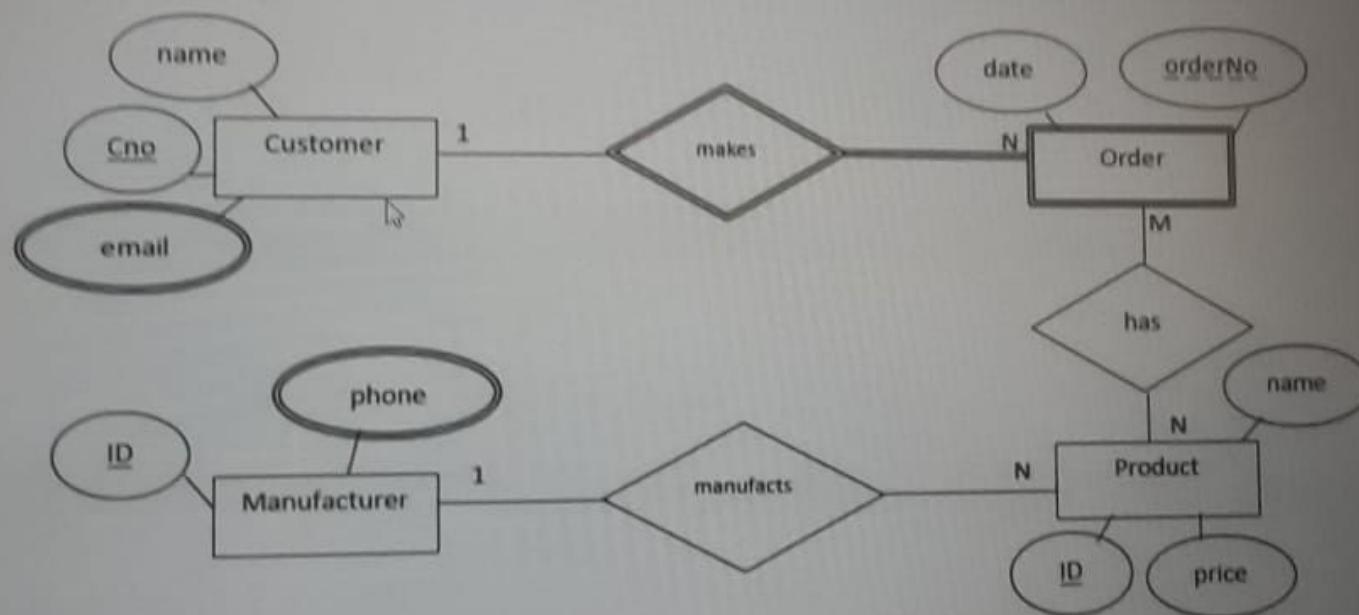
Flag question

Data Manipulation Language (DML) is/are used to _____

Select one or more:

- a. Modify data in the database
- b. Define packages and indexes
- c. Access data in the database
- d. Define the schema
- e. Define the internal level

How many tables can be obtained if the following ER diagram maps to the relational model?



Select one:

- a.

Not yet answered

Marked out of
4.00

Flag question

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. All queries have syntax errors
- b.

```
SELECT e.ename FROM emp e, works w, Dept d WHERE d.budget>50000;
```
- 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 e.eid=w.eid AND w.did=d.did AND d.budget>50000;
```
- e.

```
SELECT e.ename FROM emp e, works w, Dept d WHERE e.eid=w.eid AND w.did=d.did HAVING d.budget>50000;
```

Company ABC uses IS and IT as a tool to improve the efficiency and productivity of their salespeople. Which of the following is most suitable as a strategic objective of the ABC company?

Select one:

- a.
New products, services, and business models
- b.
Operational excellence
- c.
Customer and supplier intimacy
- d. Survival
- e.
Improved decision making

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 number of employees in each department

Select one:

- a. All queries have syntax errors
- b. SELECT COUNT(*) FROM Works;
- c. SELECT did, ALL(*) FROM Works GROUP BY did;
- d. SELECT did, COUNT(eid) FROM Works GROUP BY eid;
- e. SELECT did, COUNT(*) FROM Works GROUP BY did;

ASUS VivoBook



Question 25

Not yet answered

Marked out of

10

Flag question

MediLab is a pharmacy that purchases medicine and pharmaceutical items from TotalCare, a wholesale pharmaceutical product dealer. The pharmaceutical inventory system at MediLab maintains the Medicine-ID, Generic-name, Brand-name, and the Quantity-In-Hand of medicines. At the end of each month the system generates reports on Stock-In-Hand of all medicines in the inventory (Stock report), the Quantity-Purchased during the month (Stock receives report) and the Quantity-Sold during the month (Monthly sales report). Once a sale or a purchase is made the medicine's Qty-In-Hand will be updated in the inventory system.

A. The **inputs** captured by the input function of the MediLab's inventory control system are:

Choose...

Choose...

Qty-Purchased and Qty-In-Hand

Qty-Sold, Qty-Purchased

Stock report, Stock receives report, Monthly sales report

Medicine details and their Quantity-In-Hand

Monthly sales and TotalCare invoice

Inventory control system are:

e: Choose...

D. The **subsystems (processes)** of the MediLab inventory control system described above are:

Choose...

☰ Quiz navigation

INSTRUCTIONS

1

DATA QUESTIONS

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25 26 27

QUESTION ANSWERS

31

Previous attempt

Time left: 0:19:54

Question 25

Consider the following schema which provides information about employees and departments

Not yet answered

Marked out of
4.00

Flag question

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

Question 26

Not yet answered
Marked out of
3.00

Flag question

Sri Lanka Institute of Information Technology

- Which of the following can be considered as Candidate Keys for the following Company (RegistrationNo, Name, Address, PhoneNumber, E-mail, Type)
- Select one or more:
- a. Name, E-mail
 - b. E-mail
 - c. E-mail, Type
 - d. Name
 - e. RegistrationNo

Question 25

Not yet answered

Marked out of
6.00

Flag question

MediLab is a pharmacy that purchases medicine and pharmaceutical items from TotalCare, a wholesale pharmaceutical product dealer. The pharmaceutical inventory system at MediLab maintains the Medicine-ID, Generic-name, Brand-name, and the Quantity-in-Hand of medicines. At the end of each month the system generates reports on Stock-in-Hand of all medicines in the inventory (Stock report), the Quantity-Purchased during the month (Stock receives report) and the Quantity-Sold during the month (Monthly sales report). Once a sale or a purchase is made the medicine's Qty-in-Hand will be updated in the inventory system.

- A. The **inputs** captured by the input function of the MediLab's inventory control system are:

Qty-Purchased and Qty-In-Hand

- B. The **outputs** presented by the output function of the inventory control system are:

Stock report, Stock receives report, Monthly sales report

- C. The **stored data** of the inventory control system would be:

Medicine details and their Quantity-In-Hand

- D. The **subsystems (processes)** of the MediLab inventory control system described above are:

Updating inventory and generating monthly reports

Choose...

Sending purchase orders to TotalCare

Updating inventory and generating monthly reports

Updating Qty-In-Hand at TotalCare Inventory

Online delivery of medicines to patients

Payroll process of pharmacists

**Question 26**

Not yet answered

Marked out of
2.00

Flag question

Consider the relation Inventory (PartNo, Warehouse, Location, Qty-on-hand, Weight, Colour) with the following functional dependencies:

FD1 : PartNo \rightarrow Weight, Colour

FD2 : (PartNo , Warehouse) \rightarrow Qty_on_hand

FD3: Warehouse \rightarrow Location

Which of the following statements is/are true?

Select one or more:

- a. The functional dependency FD1 violates 2NF.
- b. The best normal form that Inventory satisfies is 1NF
- c. The functional dependency FD2 violates 1NF
- d. The best normal form that Inventory satisfies is 2NF
- e. The functional dependency FD3 violates 3NF.

Question 2

Partially correct

Flag question

Mark 6.67 out of 20.00

Which of the following can be considered as Candidate Keys for the following Company table?
Company (RegistrationNo, Name, Address, PhoneNumber, E-mail, Type)

Select one or more:

- a. Name
- b. E-mail, Type
- c. RegistrationNo ✓ Unique and Minimal
- d. Name, E-mail
- e. E-mail

Your answer is partially correct.

You have correctly selected 1.

The correct answers are: RegistrationNo, Name, E-mail

Question 26

Not yet answered

Marked out of
2.00

Flag question

Consider the relation Inventory (PartNo, Warehouse, Location, Qty-on-hand, Weight, Colour) with the following functional dependencies.

FD1 : PartNo \rightarrow Weight, Colour

FD2 : (PartNo , Warehouse) \rightarrow Qty_on_hand

FD3: Warehouse \rightarrow Location

Which of the following statements is/are true?

Select one or more:

- a. The functional dependency FD1 violates 2NF.
- b. The best normal form that Inventory satisfies is 1NF
- c. The functional dependency FD2 violates 1NF
- d. The best normal form that Inventory satisfies is 2NF
- e. The functional dependency FD3 violates 3NF.

Next page

**Question 26**

Not yet answered

Marked out of
3.00[Flag question](#)

Which of the following can be considered as Candidate Keys for the following Company (RegistrationNo, Name, Address, PhoneNumber, E-mail, Type)

Select one or more:

- a. Name, E-mail
- b. E-mail
- c. E-mail, Type
- d. Name
- e. RegistrationNo

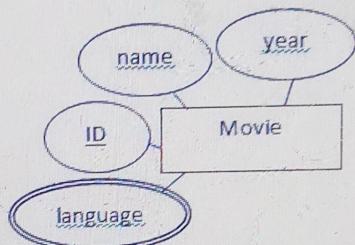


Online Exams

Sri Lanka Institute of Information Technology

27

Select the correct answer when map the *Movie* entity to relational model



Select one:

- a. Movie (ID, name, year, language)
Movie_language (ID, language)
 - b. Movie (ID, name, year)
Movie_language (ID, language)
 - c. Movie (ID, name, year, language)
 - d. Movie (ID, name, year)
Movie_language (ID, language)
 - e. Movie (ID, language, name, year)

**Question 27**

Not yet answered

Marked out of
2.00 Flag question

Microsoft excel is a

Select one:

- a. Decision Support System
- b. Global Information system
- c. Personal Information System
- d. Inter-organizational Information system
- e. Workgroup Information System

[Next page](#)

**Question 28**

Not yet answered

Marked out of
0

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

if it is in 2nf and X Google print first three characters wha X Practice Questions X +

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Question 2 Correct Mark 20.00 out of 20.00 Flag question

Which of the following can be considered as Candidate Keys for the following Company table?

Company (RegistrationNo, Name, Address, PhoneNumber, E-mail, Type)

Select one or more:

a. E-mail, Type

b. Name ✓ Company names are Unique. Also Minimal

c. RegistrationNo ✓ Unique and Minimal

d. E-mail ✓ Unique and Minimal

e. Name, E-mail

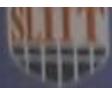
Your answer is correct.

The correct answers are: RegistrationNo, Name, E-mail

Question 3 Not answered Marked out of 20.00 Flag question

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

Type here to search



Question 20

Not yet answered

Marked out of
3.00

Flag question

Employee(empID, firstName, lastName, joinDate, basicSalary, departID) PK empID

Consider the above Employee table and find the correct SQL Function that is necessary when writing the answer for the following SQL queries.

A. Print the total number of employees in the Employee table COUNT(parameter_A)

B. Print the "firstName" from Employee table in Upper case:

- Choose...
- Choose...
- UPPER(parameter_A)**
- CHANGE(parameter_A)
- UPCASE(parameter_A)

C. Print the first three characters of "firstName" from Employee table

Next Question

Previous Question

Time left: 00:00:00

3.00

Flag question

Consider the above Employee table and find the **correct SQL Function** that is necessary when writing the answer for the following queries.

A. Print the total number of employees in the Employee table: COUNT(parameter_A)

B. Print the "firstName" from Employee table in Upper case: UPPER(parameter_A)

C. Print the first three characters of "firstName" from Employee table:

- Choose...
- Choose...
- SEPERATE(parameter_A, parameter_B)
- FIRST(parameter_A, parameter_B) **Selected**
- SUBSTRING(parameter_A, parameter_B, parameter_C)

Moodle

Not yet answered

Marked out of 4.00

Flag question

eno	NIC	ename	address	dnumb
100	901250087V	Smith, John B	731 Fondren, H...	5
101	895290452V	Wrong, Franklin T.	638 Voss, Hous...	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, Ahamed V.	980 Dallas, Hou...	1

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

Which names does this query return?

Select one or more:

a. Jabbar, Ahamed V.

b. None of the given names

c. Zelaya, Alicia J.

d. Wrong, Franklin T.

e. Narayan, Remesh K.

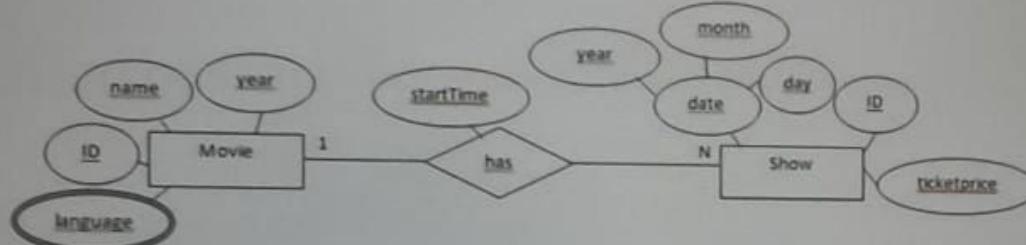
**Question 29**

Not yet answered

Marked out of
2.00

Flag question

Which relation has the descriptive attribute 'startTime' after map the following ER model into the relational model?



Select one:

- a. Movie_language
- b. None of the given answers
- c. Movie
- d. MovieShow
- e. Show

[NEXT PAGE](#)

Time left: 0:06:02

odle



Sri Lanka Institute of Information Technology

29

answered
out of
question

Consider the following schema which provides information about student results

Results (StudentNo, SubjectNo, Marks)

Find the most suitable SQL query for the below question.

Display the average marks for each subject

Select one:

- a. SELECT AVG(Marks) FROM Results GROUP BY Marks;
- b. SELECT MAX (Marks) FROM Results GROUP BY StudentNo;
- c. SELECT Marks FROM Results
- d. SELECT AVG(Marks) FROM Results ;
- e. SELECT AVG(Marks) FROM Results GROUP BY StudentNo;

Question 30

Not yet answered

Marked out of
8.00

Flag question

You are given the following details as requirements for the database for the Royal League Rugby club (RLR). RLR has many teams, and each team has a unique name, an originating city, a coach, a captain (captain of the team is also a player), and a set of players. Each player in RLR belongs to only one team. A player has a name, a position in the team and a skill level. One game is played between two teams (host team and guest teams). And it is necessary to keep track of the date the game was played, and the score of the game (such as 2 to 4). Construct the ER diagram for the RLR database and select the correct answer name (a, b, ...) for the below three questions from the following given drop down menu.

1. Which of the following are correct Entities for the ER diagram?

- a. Team, Player
- b. Game, Team
- c. Score, Team, Player
- d. Name, Team, Game
- e. Player, Game

2. Which of the following are correct Relationships for the ER diagram?

- a. Team <includes> Player, Team <plays Games with> Team, Team <captains> Player
- b. Team <plays> Game, Team <includes> Player
- c. Player <plays> Game, Team <captains> Player
- d. Team <plays Games with> Team, Player <plays> Game
- e. Team <includes> Player, Team <captains> Player

3. Which of the following statements is false?

- a. 'Team' and 'Player' are two entities in the ER diagram
- b. 'Team' entity participates in a Recursive relationship
- c. 'Game' is a Weak entity in the ER diagram
- d. The 'Date' the game was played becomes a descriptive attribute
- e. None of the above

Quiz navigation

QUESTION BANK

1 2 3 4 5

6 7 8 9 10

11 12 13 14 15

16 17 18 19 20

21 22 23 24 25

26 27 28 29 30

31 32 33 34 35

COMMENTS AND ANSWERS

36

Finish attempt

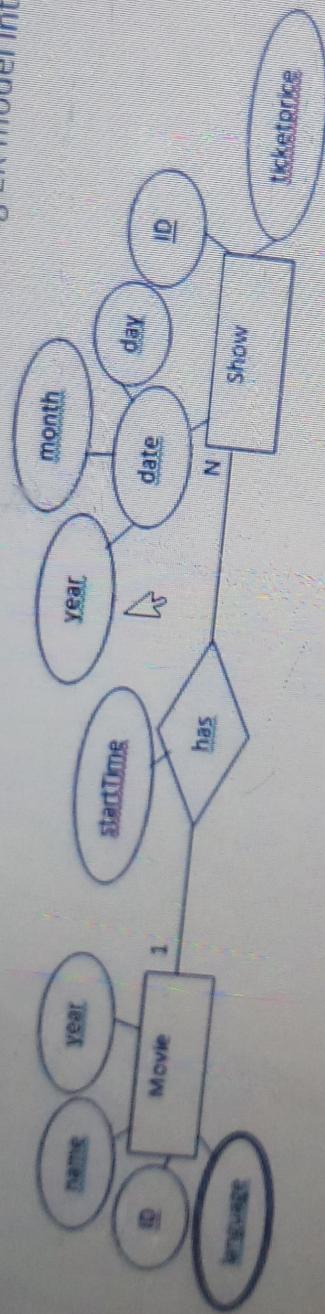
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Sri Lanka Institute of Information Technology

Question 30

Not yet answered
Marked out of
2.00
 Flag question

Which relation has the descriptive attribute 'startTime' after map the following ER model into the relational model?



Select One:

- a. Movie
- b. MovieShow
- c. Show
- d. None of the given answers
- e. Movie_language

Marked out of
1.00
 Flag question

belongs to only one team. A player has a name, a position in the team and a skill level. One game is played between two teams (home and guest teams). And it is necessary to keep track of the date the game was played, and the score of the game (such as 2:3 or 4).

Construct the ER diagram for the RLR database and select the correct answer name (a, b, ...) for the three questions from the following given drop down menu.

1. Which of the following are correct Entities for the ER diagram?

- a. Team, Player
- b. Game, Team
- c. Score, Team, Player
- d. Name, Team, Game
- e. Player, Game

2. Which of the following are correct Relationships for the ER diagram?

- a. Team <includes> Player, Team <plays Games with> Team, Team <captains> Player
- b. Team <plays> Game, Team <includes> Player
- c. Player <plays> Game, Team <captains> Player
- d. Team <plays Games with> Team, Player <plays> Game
- e. Team <includes> Player, Team <captains> Player

3. Which of the following statements is false?

- a. 'Team' and 'Player' are two entities in the ER diagram
- b. 'Team' entity participates in a Recursive relationship
- c. 'Game' is a Weak entity in the ER diagram
- d. The 'Date' the game was played becomes a descriptive attribute
- e. None of the above

1. Which of the following are correct Entities for the ER diagram?

d

2. Which of the following are correct Relationships for the ER diagram?

a

Marked out of
8.00
▼ Flag question

belongs to only one team. A player has a name, a position in the team and a skill level. One game is played between two teams (host teams and guest teams). And it is necessary to keep track of the date the game was played, and the score of the game (such as 2 to 4). Construct the ER diagram for the RLR database and select the correct answer name (a, b,...) for the below three questions from the following given drop down menu.

1. Which of the following are correct Entities for the ER diagram?

- a. Team, Player
- b. Game, Team
- c. Score, Team, Player
- d. Name, Team, Game
- e. Player, Game

2. Which of the following are correct Relationships for the ER diagram?

- a. Team <includes> Player, Team <plays Games with> Team, Team <captains> Player
- b. Team <plays> Game, Team <Includes> Player
- c. Player <plays> Game, Team <captains> Player
- d. Team <plays Games with> Team, Player <plays> Game
- e. Team <includes> Player, Team <captains> Player

3. Which of the following statements is false?

- a. 'Team' and 'Player' are two entities in the ER diagram
- b. 'Team' entity participates in a Recursive relationship
- c. 'Game' is a Weak entity in the ER diagram
- d. The 'Date' the game was played becomes a descriptive attribute
- e. None of the above

1. Which of the following are correct Entities for the ER diagram?

d

2. Which of the following are correct Relationships for the ER diagram?

a

QUESTION	ANSWER	EXPLANATION	COMMENTS AND CORRECTION
Q1	1		31
Q2	2		
Q3	3		
Q4	4		
Q5	5		
Q6	6		
Q7	7		
Q8	8		
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Q21	21		
Q22	22		
Q23	23		
Q24	24		
Q25	25		
Q26	26		
Q27	27		
Q28	28		
Q29	29		
Q30	30		
Q31	31		

Finish attempt

Time left 00:20:08

Select the correct answer for the missing part of the following statement.

When execute the following insert statement constraint will be violated

INSERT INTO Department VALUES (2, 'Marketing')

Employee

empNo	name	salary (US\$)	dno
EM1201	Sandra	400	1
EM2390	Alex	315	1
EM2213	John	560	2

Department

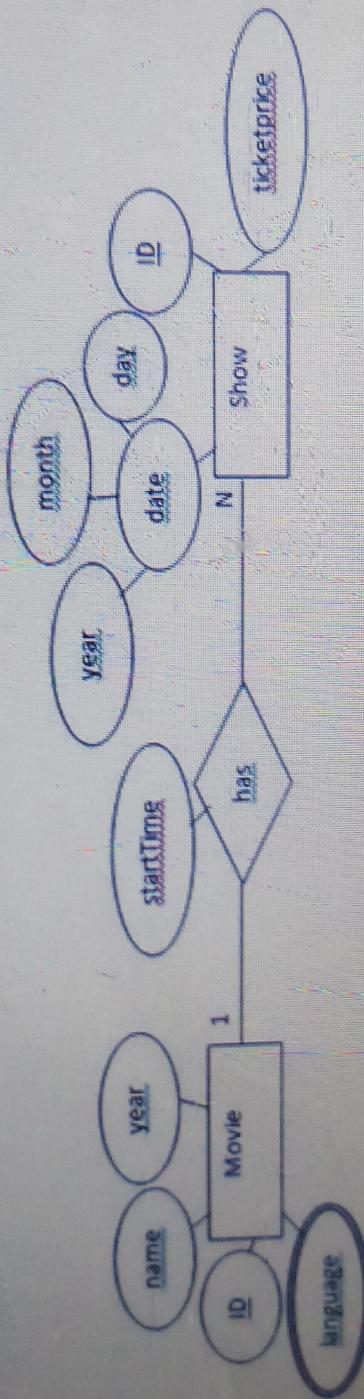
dNo	name
1	HR
2	Finance

Choose... Choose... Domain Key Check Entity Integrity Referential Integrity

ASUS VivoBook



Which relation has the descriptive attribute 'startTime' after map the following ER model into the relational model?



Select one:

- a. Movie
- b. MovieShow
- c. Show
- d. None of the given answers
- e. Movie_language



Employee(emplD, firstName, lastName, joinDate, basicSalary, departID) PK: emplD

Consider the above Employee table and find the **correct SQL Function** that is necessary when writing the above three SQL queries.

- A. Print the highest basic salary of an employee in the Employee table: Choose...
- B. Print the length of "firstName" for each employee from Employee table: Choose...
- C. Print the "firstName" from Employee table after replacing each 'a' with 'A': Choose...

Choose...
Choose...
CHAR(parameter_A)
TOTAL(parameter_A)
LENGTH(parameter_A)



on 2

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Employee(empID, firstName, lastName, joinDate, basicSalary, departID) PK: empID

Consider the above Employee table and find the correct SQL Function that is necessary when writing the following three SQL queries.

- A. Print the highest basic salary of an employee in the Employee table:
- B. Print the length of "firstName" for each employee from Employee table:
- C. Print the "firstName" from Employee table after replacing each 'a' with 'A':

Choose...

Choose...

UPDATE(parameter_A, parameter_B, parameter_C)

CHANGE(parameter_A, parameter_B)

REPLACE(parameter_A, parameter_B, parameter_C)

2. What are the 2nd Normal Form relations for Account_Info table.

- a. R1(Account_No, Customer_NIC, Balance, Customer_Name, Customer_address)
R2 (Account_No, Customer_NIC, Account_Type, Interest_rate)
- b. R1(Account_No, Balance)
R2 (Customer_NIC, Customer_Name, Customer_address)
R3 (Account_No, Customer_NIC, Account_Type, Interest_rate)
- c. R1(Account_No, Balance)
R2 (Customer_NIC, Customer_Name, Customer_address)
R3(Account_Type, Interest_rate)
R4 (Account_No, Customer_NIC, Account_Type)
- d. R1(Account_Type, Interest_rate)
R2 (Account_No, Customer_NIC, Account_Type, Balance, Customer_Name, Customer_address, Interest_rate.)
- e. R1(Account_No, Balance)
R2 (Customer_NIC, Customer_Name, Customer_address)
R3 (Account_No, Customer_NIC, Account_Type)

3. What are the 3rd Normal Form relations for Account_Info table.

- a. R1(Account_No, Balance)
R2 (Customer_NIC, Customer_Name, Customer_address)

R3(Account_Type, Interest_Rate)

R4 (Account_No,Customer_NIC,Account_Type)

b. R1(Account_No,Balance)

R2 (Customer_NIC, Customer_Name, Customer_address)

R3 (Account_No,Customer_NIC,Account_Type,Interest_rate)

c. R1(Account_Type, Interest_rate)

R2 (Account_No,Customer_NIC,Account_Type,Balance,Customer_Name,Customer_address,Interest_rate.)

d. R1(Account_No,Customer_NIC ,Balance,Customer_Name,Customer_address)

R2 (Account_No,Customer_NIC,Account_Type,Interest_rate)

e. R1(Account_No,Balance)

R2 (Customer_NIC, Customer_Name, Customer_address)

R3(Account_Type, Interest_Rate)

R4 (Account_No,Customer_NIC,Account_Type,Interest_Rate)

Select the correct answer name for the above questions from the following.

1. Which normal form is the relation in?

Choose... ▾

2. What are the 2nd Normal Form relations for Account_Info table.

Choose... ▾

3. What are the 3rd Normal Form relations for Account_Info table.

Choose... ▾

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Finish

Time

The table below shows details of "Sanhinda" bank.

Account_Info

Account_No	Customer_NIC	Account_type	Balance	Customer_Name	Customer_address	Interest_rate
A001	881234567V	Fixed Deposit	1200,000	A.L. Gunasiri	Kaduwela	12%
A002	781245639V	Savings	25,800	J.W. Perera	Malabe	6%
A003	781245639V	Fixed Deposit	50,000	J.W. Perera	Moratuwa	12%
A001	905001002V	Fixed Deposit	1200,000	D. Wijekoon	Colombo 3	12%

Account_No → Balance

Account-type → Interest_rate

Customer_NIC → Customer_Name, Customer_address

The diagram above shows the dependencies and attributes of the relation "Account_Info". Primary key is (AccountNo, Customer_NIC)

Answer the following question using the table and dependencies given above.

1. Which normal form is the relation in?



- a. First Normal Form
- b. Second Normal Form
- c. Third Normal Form
- d. Unnormalized Form
- e. BCNF

The table below shows details of "Sanhindda" bank.

Account_Info

Account_No	Customer_NIC	Account_type	Balance	Customer_Name	Customer_address	Interest_rate
A001	881234567V	Fixed Deposit	1200,000	A.L. Gunasiri	Kaduwela	12%
A002	781245639V	Savings	25,800	J.W. Perera	Malabe	6%
A003	781245639V	Fixed Deposit	50,000	J.W. Perera	Moratuwa	12%
A001	905001002V	Fixed Deposit	1200,000	D. Wijekoon	Colombo 3	12%

Account_No \rightarrow Balance

Account-type \rightarrow Interest_rate

Customer_NIC \rightarrow Customer_Name, Customer_address

The diagram above shows the dependencies and attributes of the relation "Account_Info". Primary key is (AccountNo, Customer_NIC)

Answer the following question using the table and dependencies given above.

1. Which normal form is the relation in?

- a. First Normal Form
- b. Second Normal Form
- c. Third Normal Form
- d. Unnormalized Form
- e. BCNF

Finish attempt ...

Time left 1:59:36

≡ Quiz navigation

INSTRUCTIONS

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2. What are the 2nd Normal Form relations for Account_Info table.

- a. R1(Account_No, Customer_NIC, Balance, Customer_Name, Customer_address)
R2 (Account_No, Customer_NIC, Account_Type, Interest_rate)
- b. R1(Account_No, Balance)
R2 (Customer_NIC, Customer_Name, Customer_address)
R3 (Account_No, Customer_NIC, Account_Type, Interest_rate)
- c. R1(Account_No, Balance)
R2 (Customer_NIC, Customer_Name, Customer_address)
R3(Account_Type, Interest_rate)
R4 (Account_No, Customer_NIC, Account_Type)
- d. R1(Account_Type, Interest_rate)
R2 (Account_No, Customer_NIC, Account_Type, Balance, Customer_Name, Customer_address, Interest_rate.)
- e. R1(Account_No, Balance)
R2 (Customer_NIC, Customer_Name, Customer_address)
R3 (Account_No, Customer_NIC, Account_Type)

3. What are the 3rd Normal Form relations for Account_Info table.

3. What are the 3rd Normal Form relations for Account_Info table.

- a. R1(Account_No Balance)
R2 (Customer_NIC Customer_Name Customer_Address)
R3(Account_Type Interest_Rate)
R4 (Account_No_Customer_NIC_Account_Type)

- b. R1(Account_No_Balance)
R2 (Customer_NIC Customer_Name Customer_Address)
R3 (Account_No_Customer_NIC_Account_Type interest_rate)

- c. R1(Account_Type Interest_Rate)
R2 (Account_No_Customer_NIC_Account_Type Balance Customer_Name Customer_Address)

- d. R1(Account_No_Customer_NIC_Balance Customer_Name Customer_Address)
R2 (Account_No_Customer_NIC_Account_Type interest_rate)

- e. R1(Account_No_Balance)
R2 (Customer_NIC Customer_Name Customer_Address)
R3(Account_Type Interest_Rate)
R4 (Account_No_Customer_NIC_Account_Type,interest_rate)

Select the correct answer name for the above questions from the following.

- 1. Which normal form is the relation in?
 Choose... ▾

- 2. What are the 2nd Normal Form relations for Account_Info table.
 Choose... ▾

- 3. What are the 3rd Normal Form relations for Account_Info table.
 Choose... ▾

Question 2

Not yet answered

Marked out of
2.00

 Flag question

Consider the relation Employee(Empid, NIC, Ename, Address, Salary) with the following functional dependencies

$\text{Empid} \rightarrow \text{NIC, Ename, Address, Salary}$

$\text{NIC} \rightarrow \text{Empid, Ename, Address, Salary}$

What is the best normal form that Employee satisfies?

Select one:

- a. BCNF
- b. Second Normal Form
- c. First Normal Form
- d. Third Normal Form
- e. Unnormalized Form

Next page



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Question 2

Not yet answered

Marked out of
2.00

Flag question

- b) How many relations you can get when normalize the relation Patient_Info in to 3rd normal form?

Patient_Info (patient, consultant, hospital, address, date, time)

patient, consultant -> hospital, address, date, time

hospital -> address

<input checked="" type="checkbox"/>
1
2
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5

[Next page](#)



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1
answered
out of
ing 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 HAVING e.eid=w.eid AND w.did=10 AND w.did=20;
- b. SELECT e.ename FROM emp e, works w HAVING w.did=10 OR w.did=20;
- c. All queries have syntax errors
- d. SELECT e.ename FROM emp e, works w WHERE e.eid=w.eid AND (w.did=10 OR w.did=20);
- e. SELECT e.ename FROM emp e, works w WHERE w.did=10 OR w.did=20;



Question 3

Not yet answered

Marked out of
2.00

Flag question

Information systems contribute in many ways to the business except,

Select one:

- a. Improve the productivity of employees
- b. Collect, process, store, analyze, and disseminate information for a specific purpose.
- c. Balance the workload among employees.
- d. Support and improve day-to-day operations in an organization.
- e. Support the problem solving and decision-making needs of various people.



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Question 1

Not yet answered

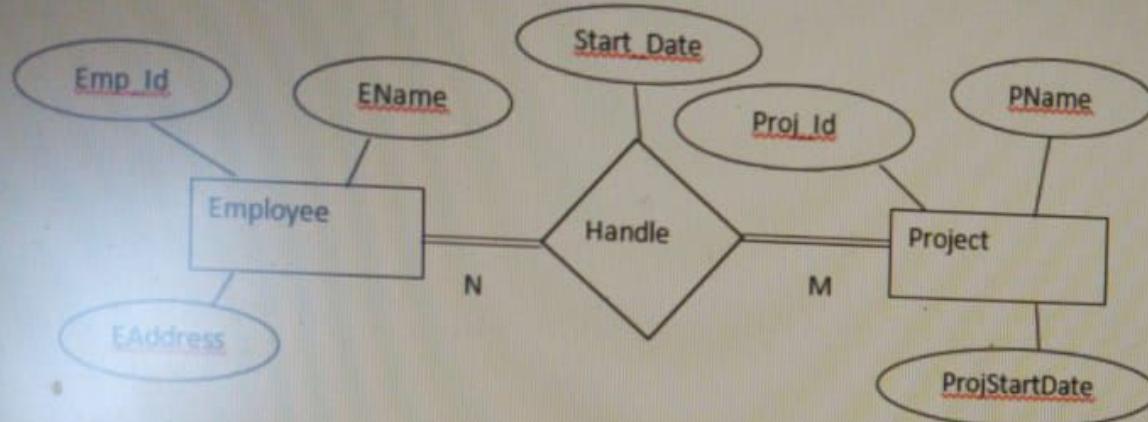
Marked out of
2.00

Flag question

How many levels of data abstraction will include in a database management system?

Select one:

- a. 3
- b. 2
- c. 0
- d. 1
- e. 4



Which statement/s are true related to the given ER diagram?

Select one or more:

- a. We can find the total number of projects handled by each employee, using a database created with this design
- b. Descriptive attribute 'Start_Date' gives the date an employee started handling a particular project
- c. An employee may or may not handle a project. But a project must be handled by at least one employee
- d. A project must be handled by one or more employees
- e. Each and every employee must handle a project

R2 (Account_No,Balance,Customer_Name,Customer_address)
R2 (Customer_NIC,Customer_Name,Customer_address)
R2 (Account_Type,Interest_rate)

e. R1(Account_No,Balance)

R2 (Customer_NIC,Customer_Name,Customer_address)

R3(Account_Type,Interest_rate)

R4 (Account_No,Customer_NIC,Account_Type,Interest_rate)

Select the correct answer name for the above questions from the following.

1. Which normal form is the relation in?

Choose... ▾

2. What are the 2nd Normal Form relations for Account_Info table.

Choose... ▾

3. What are the 3rd Normal Form relations for Account_Info table.

Choose... ▾

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

≡ Quiz navigation

INSTRUCTIONS

1

EXAM QUESTIONS

1	2	3	4
9	10	11	12
17	18	19	20
25	26	27	28

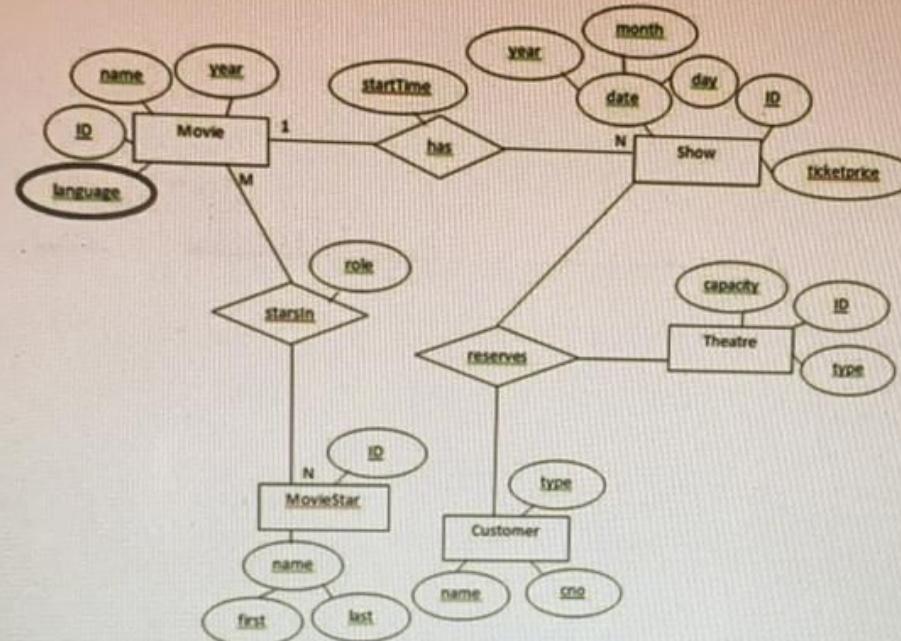
COMMENTS

31

Finish attempt ...

Time left 1:47:28

How many tables refer the *ID* primary key in the 'Movie' relation after map the following ER model into the relational model?



Select one:

- a. 2
- b. 1
- c. 5
- d. 4
- e. 3

≡ Quiz navigation

INSTRUCTIONS

1

EXAM QUESTIONS

1	2	3	4	5
9	10	11	12	13
17	18	19	20	21
25	26	27	28	29

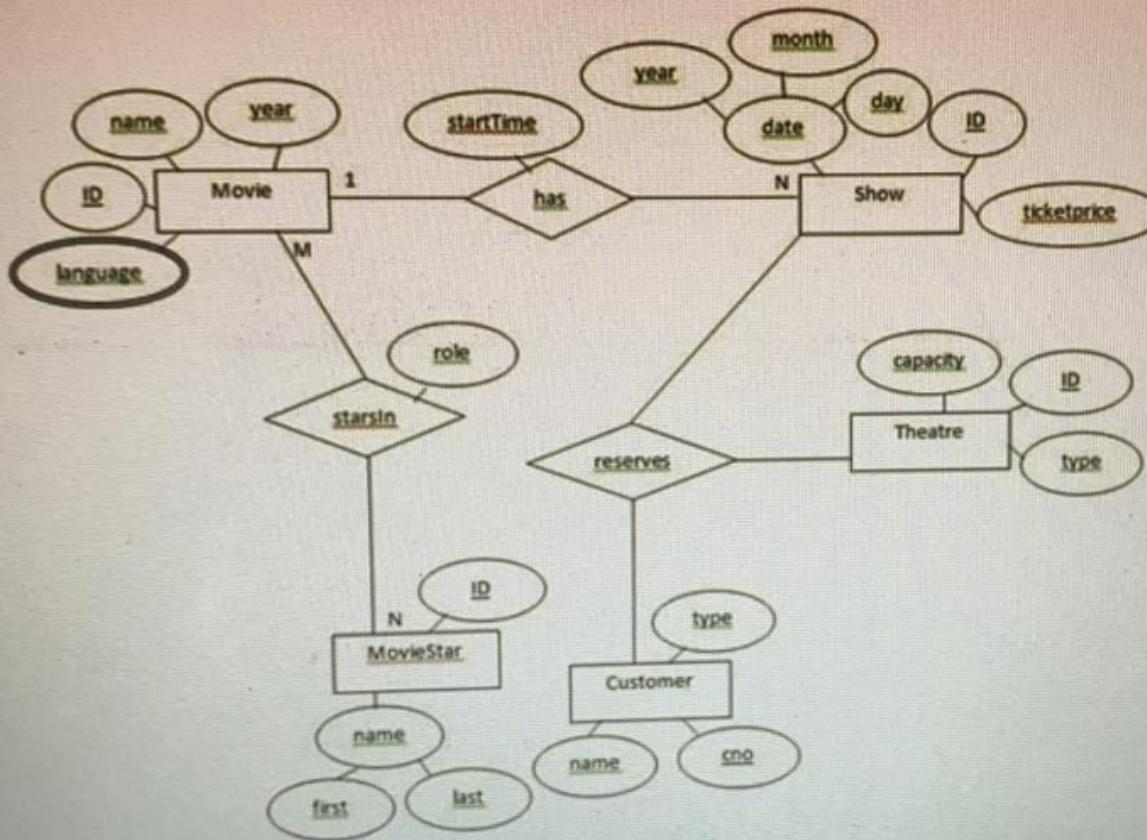
COMMENTS

31

Finish attempt ...

Time left 1:48:48

oles refer the *ID* primary key in the 'Movie' relation after map the following ER model into the relational model?



HAVING COUNT(*)

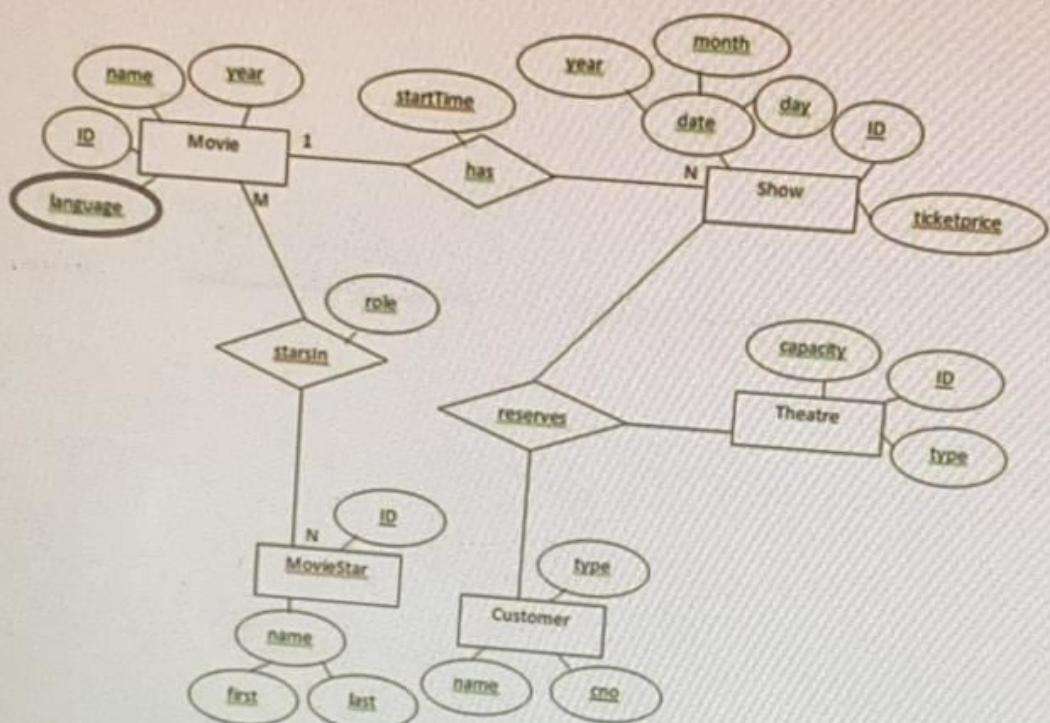
k. Print employee IDs of employees getting a salary greater than all employees in 'Sales' department.

```
SELECT e.eid  
FROM Employee  
WHERE e.salary > ALL (SELECT e.salary  
                      FROM Employee e, Department d  
                      WHERE e.dept=d.deptNo AND  
                            d.name='Sales');
```

---or---

```
SELECT e.eid
```

the ID primary key in the 'Movie' relation after map the following ER model into the relational model.



Account_Info

Account_No	Account_type	Balance	Interest_rate
A001	Fixed Deposit	1200,000	12%
A002	Savings	25,800	6%
A003	Fixed Deposit	50,000	12%
A001	Fixed Deposit	1200,000	12%

Primary key is (AccountNo)

Following are the Functional Dependencies that exist on the given relation.

Account_No \rightarrow Account_Type, Balance, Interest_rate

Account-type \rightarrow Interest_rate

Answer the following question using the table and dependencies given above.

1. Which normal form is the relation in?

- a. First Normal Form
- b. Second Normal Form
- c. Third Normal Form
- d. Unnormalized Form
- e. BCNF

2. What are the 2nd Normal Form relations for Account_Info table.

2. What are the 2nd Normal Form relations for Account_Info table.

- a. R1(Account_No, Account_Type, Balance)
R2 (Account_Type, Interest_rate)
- b. R1 (Account_No, Balance, Interest_rate)
R2 (Account_Type, Interest_rate)
- c. R1(Account_No, Balance)
R2 (Account_Type, Interest_rate)
R3 (Account_No, Account_Type)
- d. R1(Account_Type, Interest_rate)
R2 (Account_No, Account_Type, Balance, Interest_rate)
- e. R1 (Account_No, Account_Type, Balance, Interest_rate)

3. What are the 3rd Normal Form relations for Account_Info table.

- a. R1(Account_No, Account_Type, Balance)
R2 (Account_Type, Interest_rate)
- b. R1 (Account_No, Balance, Interest_rate)
R2 (Account_Type, Interest_rate)

- e. R1 (Account_No, Account_Type, Balance, Interest_rate)

3. What are the 3rd Normal Form relations for Account_Info table.

- a. R1(Account_No , Account_Type, Balance)
R2 (Account_Type, Interest_rate)
- b. R1 (Account_No, Balance, Interest_rate)
R2 (Account_Type, Interest_rate)
- c. R1(Account_No, Balance)
R2 (Account_Type, Interest_rate)
R3 (Account_No, Account_Type)
- d. R1(Account_Type, Interest_rate)
R2 (Account_No, Account_Type, Balance, Interest_rate)
- e. R1 (Account_No, Account_Type, Balance, Interest_rate)

Select the correct answer name for the above questions from the following.

1. Which normal form is the relation in? Choose... *

2. What are the 2nd Normal Form relations for Account_Info table. Choose... *

The table below shows details of "Sanhindha" bank.

Account_Info

Account_No	Customer_NIC	Account_type	Balance	Customer_Name	Customer_address	Interest_rate
A001	881234567V	Fixed Deposit	1200,000	A.L. Gunasiri	Kaduwela	12%
A002	781245639V	Savings	25,800	J.W. Perera	Malabe	6%
A003	781245639V	Fixed Deposit	50,000	J.W. Perera	Moratuwa	12%
A001	905001002V	Fixed Deposit	1200,000	D. Wijekoon	Colombo 3	12%

Account_No -> Balance

Account-type -> Interest_rate

Customer_NIC-> Customer_Name, Customer_address

The diagram above shows the dependencies and attributes of the relation "Account_Info". Primary key is (AccountNo, Customer_NIC)

Answer the following question using the table and dependencies given above.

1. Which normal form is the relation in?

- a. First Normal Form
- b. Second Normal Form
- c. Third Normal Form
- d. Unnormalized Form
- e. BCNF



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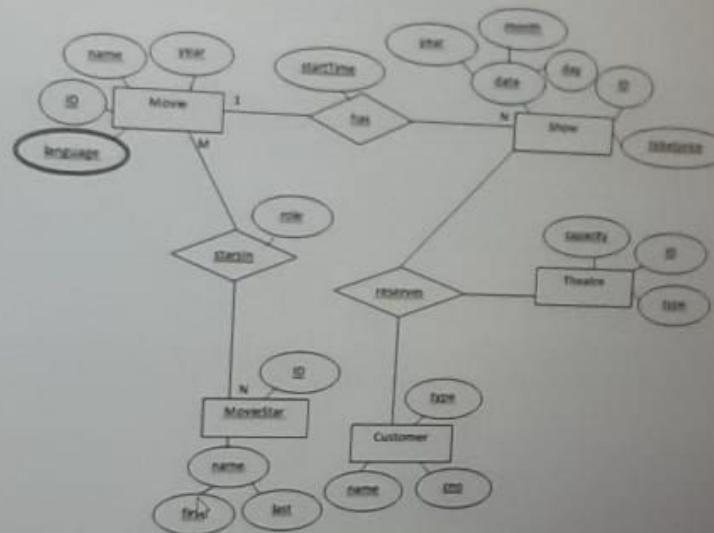
Question 4

Not yet answered

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5.00

Flag question

Which of the following is/ are **false** about the schema resulted after mapping the below ER diagram to the relational model?



Select one or more:

- a. Primary key showID in the Show table is referred by the 2 tables
- b. Reserves table has 2 foreign keys
- c. Primary key cno in the Customer table is referred by the 2 tables
- d. Primary key ID in the MovieStar table is referred by one table
- e. Degree of the MovieStar table is 3



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Components of a Computer based Information System does not include,

Select one:

- a. Hardware
- b. Procedures
- c. Business policies
- d. Personal
- e. Stored data

ASUS Vivo





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Question 7

Not yet answered

Marked out of

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Flag question

A relation is in first normal form if it does not contain any repeating groups.

Select one:

- True
- False



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on 8

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g question

Normalization is the process of removing data anomalies from database design.

Select one:

- True
- False

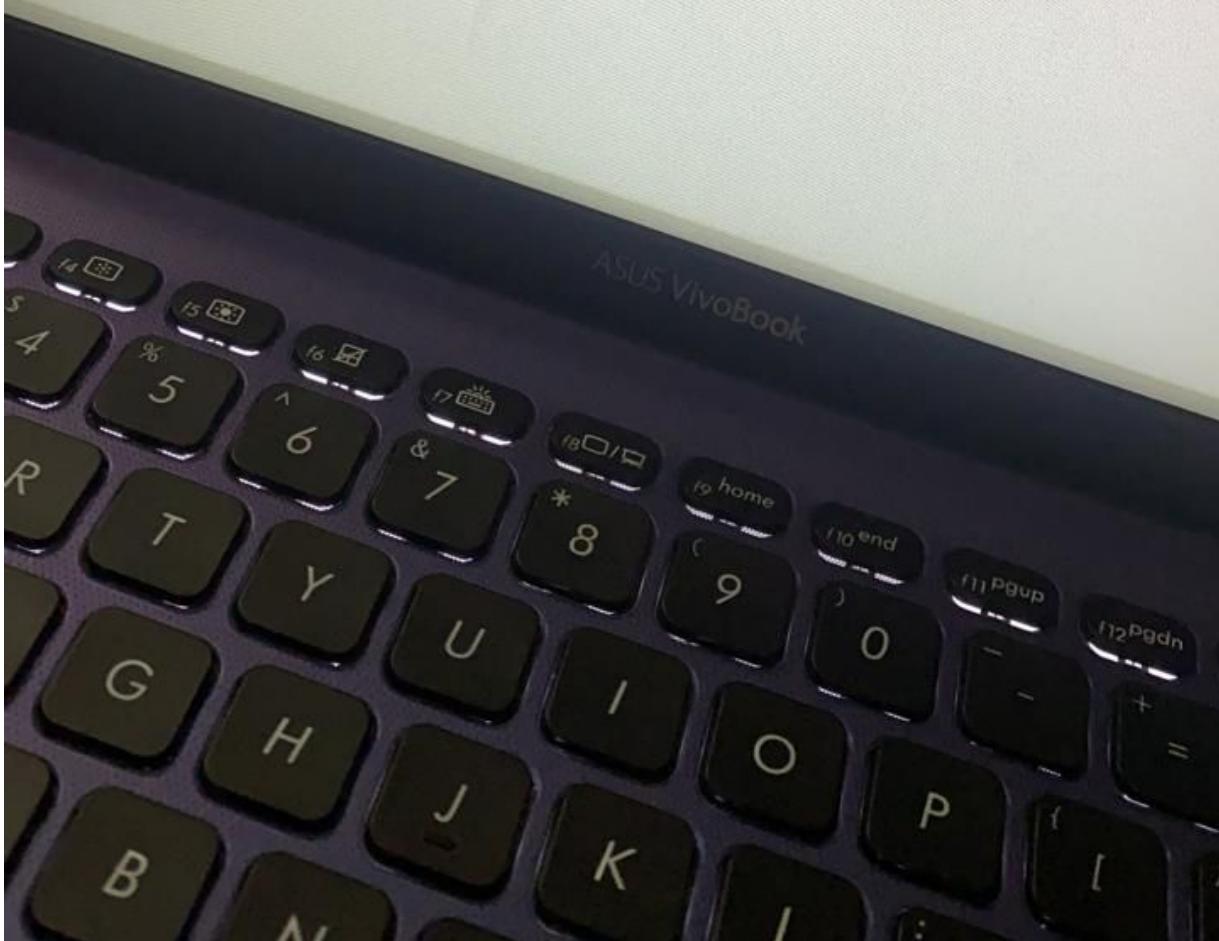
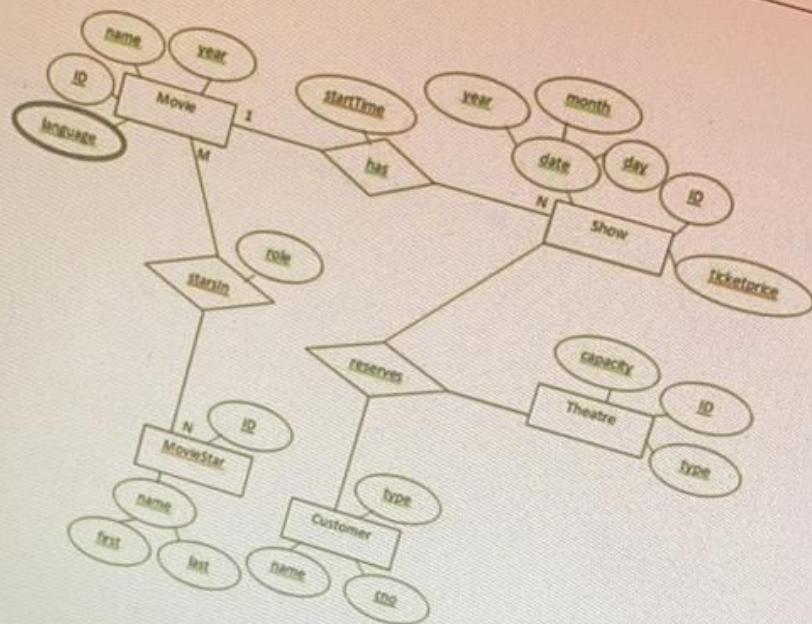


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How many tables have composite primary key in the final relational model?



Select one:

- a. 2
- b. 3
- c. 5
- d. 1
- e. 4

Select the correct answer for the missing part of the following statement.

* When execute the following Delete statement

DELETE

FROM Department

WHERE dNo = 2;

Choose...

Choose...

Key

Entity Integrity

Domain

None of the given

Referential Integrity

The constraint will be violated.

Employee

empNo	name	salary (US\$)	dno
EM1201	Sandra	400	1
EM2390	Alex	315	1
EM2213	John	560	2

Department

deptNo	name
--------	------

Select the correct answer for the missing part of the following statement.

When execute the following Delete statement Choose... constraint will be violated.

DELETE

FROM Department

WHERE dNo = 2;

Employee

empNo	name	salary (US\$)	dno
EM1201	Sandra	400	1
EM2390	Alex	315	1
EM2213	John	560	2

Department

dNo	name
1	HR
2	Finance

Quiz na

INSTRUCTION

1

EXAM QUEST

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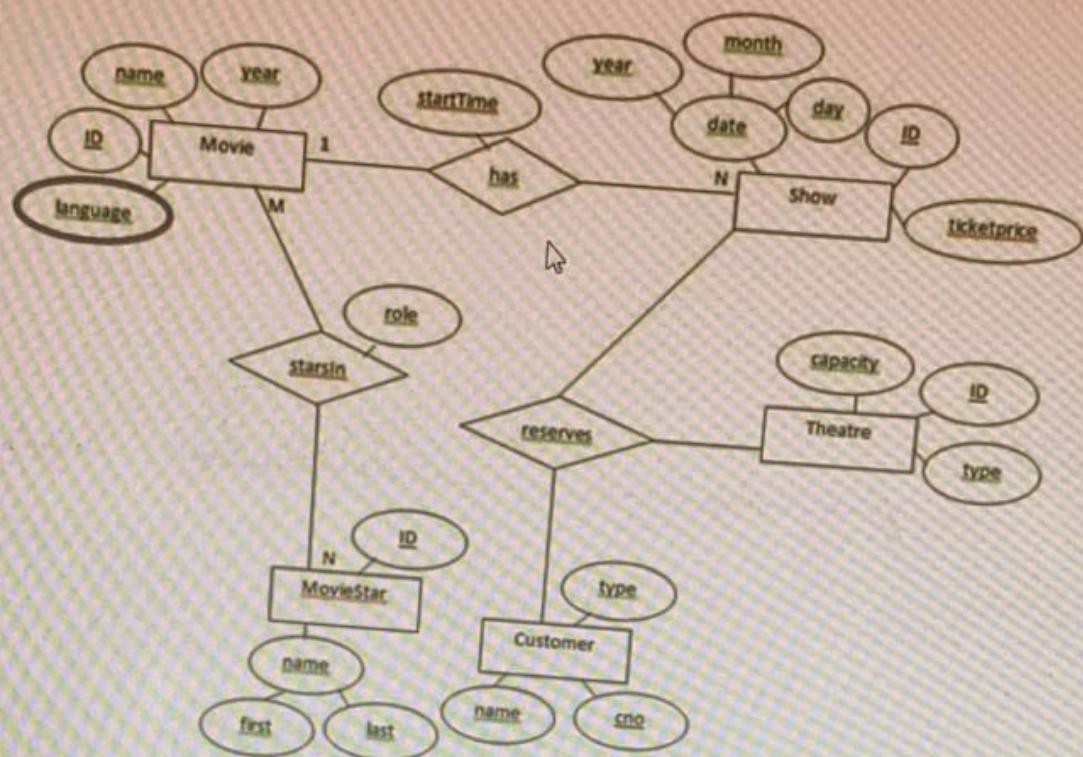
COMMENTS

31

Finish attempt

Time left 1:39:2

Composite primary key in the final relational model?



ASUS VivoBook



Online Exams

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Question 10

yet answered

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Flag question

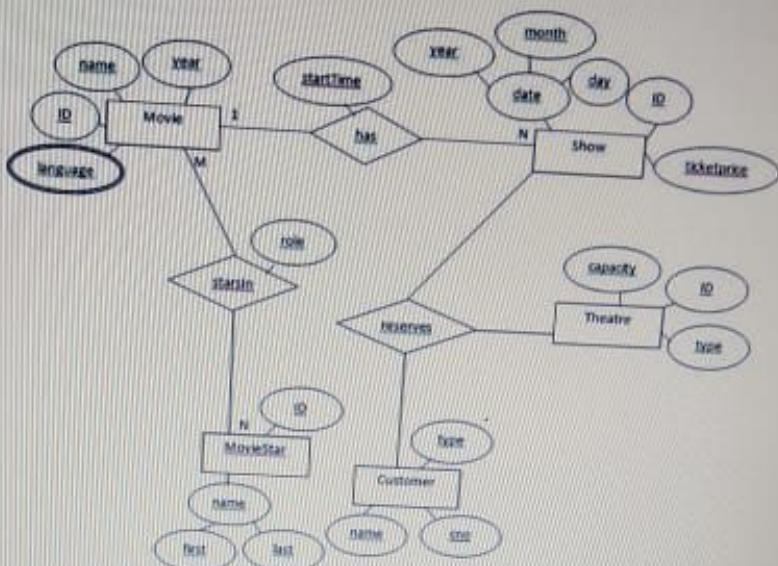
Which of the following are true about a Weak entity?

Select one or more:

- a. It is also a strong entity with a Partial Key
- b. Each entity in the Weak entity-set must participate in at least, and at most one relationship instance with the other side.
- c. It has a Partial Key which is marked using a dashed underline
- d. It can participate in any kind of relationship as 1:1, 1:M, M:N
- e. It depends on another strong entity

Next page

How many tables have composite primary key in the final relational model?



Select one:

- a. 2
- b. 5
- c. 3
- d. 4
- e. 1



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Question 11

Not yet answered

Marked out of
0.00

* Flag question

Super Aero Engineering uses CAD and CAM systems to construct new aircraft prototypes.

Which of the following is most suitable as a strategic objective of the Super Aero Engineering company?

Select one:

- a. Improved decision making
- b. Customer and supplier intimacy
- c. New products, services, and business models
- d. Operational excellence
- e. Survival



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 highest salary value of an employee



Select one:

- a. SELECT MAX(salary) FROM Emp;
- b. SELECT salary FROM Emp WHERE MAX(salary);
- c. SELECT salary FROM Emp WHERE TOTAL(salary);
- d. SELECT SUM(salary) FROM Emp;
- e. All queries have syntax errors

ASUS VivoBook





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How many levels of data abstraction will include in a database management system?

Select one:

- a. 3
- b. 4
- c. 0
- d. 1
- e. 2



Consider the following schema which provides information about student results

Results (StudentNo, SubjectNo, Marks)

Find the most suitable SQL query for the given question.

Display the average mark for 'IT1090' subject

Select one:

- a.
SELECT AVG(Marks) FROM Results GROUP BY SubjectNo ='IT1090';
- b. SELECTMarks FROM Results WHERE AVG(Marks) ='IT1090';
- c. SELECT SUM(Marks) FROM Results WHERE SubjectNo ='IT1090';
- d.
SELECT AVG(Marks) FROM Results WHERE SubjectNo ='IT1090';
- e. SELECT AVG(Marks) FROM Results ORDER BY SubjectNo ='IT1090';



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16

answered

out of

question

Which of the following statements is incorrect?

Select one:

- a.
An information system user uses an information system in his or her personal or work life.
- b.
An information system user is also known as an end-user.
- c.
The developer who developed the Information System is not an IS user.
- d.
An information system user is a computer-oriented person who gains some benefit from using an information system.
- e.
End-user is not a computer professional.

Next page

**Question 6**

Not yet answered

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3.00

Flag question

Select the correct answer for the missing part of the following statement.

When execute the following insert statement Key constraint will be violated.

INSERT INTO Employee VALUES ('EM2132', 'William', 500, 3);

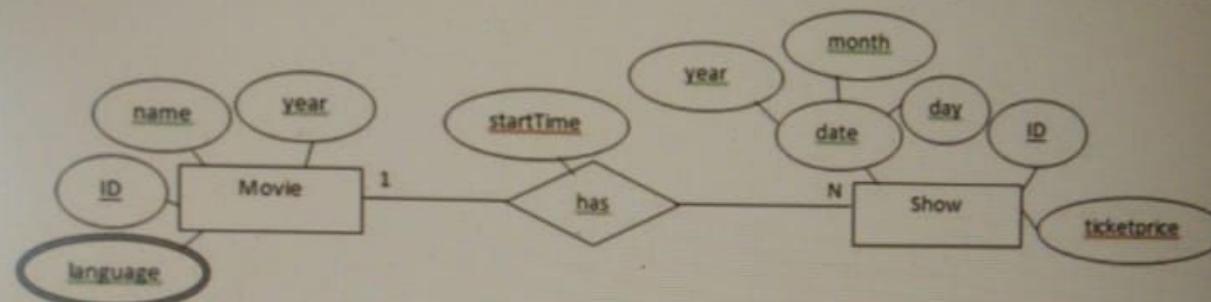
Employee

empNo	name	salary (US\$)	dno
EM1201	Sandra	400	1
EM2390	Alex	315	1
EM2213	John	560	2

**Department**

dNo	name
1	HR
2	Finance

Which of the following is/ are true about the schema resulted after mapping the below ER diagram to the Relational model?



Select one or more:

- a. The relation containing startTime attribute has 2 foreign keys
- b. The relation 'show' includes 7 attributes
- c. The relation containing 'startTime' attribute has a composite primary key
- d. The relation 'show' has the movieID as the foreign key
- e. The relation containing startTime has language as the foreign key

Next page

Finish

Time

Database systems comprise of complex data structures. Thus, to make the system efficient for retrieval of data and reduce the complexity of the users, developers use the method of Data Abstraction.

The is the highest level in the data abstraction which shows/states only a part of the database.

-
- Internal Level
- Conceptual Level
- External Level
- Logical Level
- User Level

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≡ Quiz na

INSTRUCTION

EXAM QUESTI

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COMMENTS

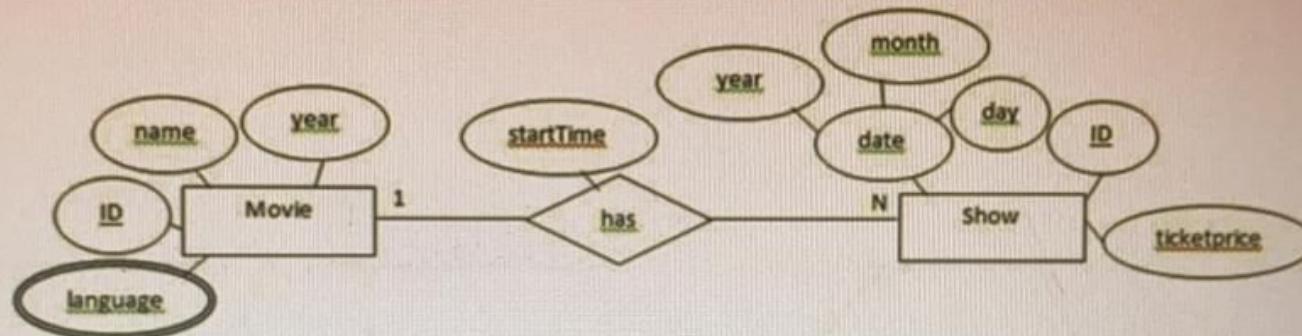
31

[Finish attempt](#)

Time left: 1:33:16



Which of the following is/ are true about the schema resulted after mapping the below ER diagram to the Relational model?



Select one or more:

- a. The relation 'show' includes 7 attributes
- b. The relation containing 'startTime' attribute has a composite primary key
- c. The relation containing startTime attribute has 2 foreign keys
- d. The relation 'show' has the movieID as the foreign key
- e. The relation containing startTime has language as the foreign key

Question 7

Not yet answered

Marked out of
0.00

Flag question

You are given the following details as requirements for the database for a leading University.

In the University, there are several departments. Department have a name, phone extension, specific mailing address and Students that belong to the department. Students can belong to exactly one Department and a Department can have more than one or no Students. Students and faculty have names and unique identification numbers, with address, age, gender and other information. Student studies different Courses offered by University. Faculty teaches these Courses. In each semester one student can take more than one course and Faculty can teach more than one course. Each course can be taught by many faculty members or no one.

Construct the ER diagram for the university database, and select the correct answer for the below questions from the following drop-down menu.

1. What are the correct entities for the ER diagram?

- a. Department, Student, Course, Faculty
- b. Department, Student, Course
- c. University, student, course, Faculty
- d. University, Department, Faculty, Student
- e. Student, Course, Faculty

2. What is an incorrect Relationship for the ER diagram?

- a. Student <belongs to> Department
- b. Student <studies> Course
- c. Faculty <Teaches> Course
- d. Department <managed by> Faculty
- e. None of the above

3. Which of the following statements is false?

- a. Department and Student entities participate in a 1:M relationship
- b. Faculty and Course entities participate in a M:N relationship
- c. All relationships of the ER diagram are Binary Relationships
- d. Department and Course participates in a 1:M relationship
- e. The Degree of all relationships are 2

Quiz navigation**INSTRUCTIONS****1****EXAM QUESTIONS**

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35																														

COMMENTS**35**

Recent attempt...

Time left 1:27:19

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 highest salary value of an employee

Select one:

- a. SELECT SUM(salary) FROM Emp;
- b. SELECT salary FROM Emp WHERE MAX(salary);
- c. SELECT MAX(salary) FROM Emp;
- d. All queries have syntax errors
- e. SELECT salary FROM Emp WHERE TOTAL(salary);



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Consider the following schema which provides information about items.

Item (item_no, supplier_no, item_name, quantity_in_hand, reorder_level)

Find the most suitable SQL query for the given question.

Display the item no and quantity which has the most quantity in hand.

Select one:

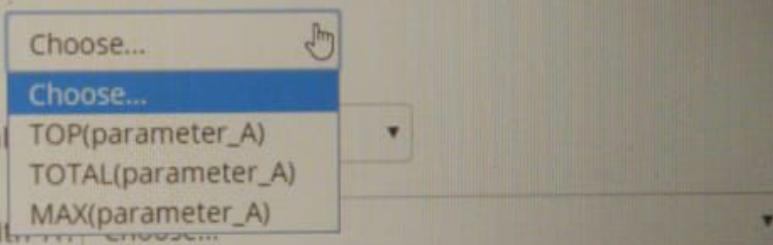
- a. Select MAX(item_no, quantity_in_hand) From Item
- b. Select item_no, MAX (quantity_in_hand) From Item
- c. Select item_no, SUM (quantity_in_hand) From Item
- d. Select item_no From Item
- e.

Select item_no, quantity_in_hand From Item

Employee(empID, firstName, lastName, joinDate, basicSalary, departID) PK: empID

Consider the above Employee table and find the **correct SQL Function** that is necessary when writing the answers for the following three SQL queries.

A. Print the highest basic salary of an employee in the Employee table:



B. Print the length of "firstName" for each employee from Employee tal

C. Print the "firstName" from Employee table after replacing each 'a' wi

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Online Exams

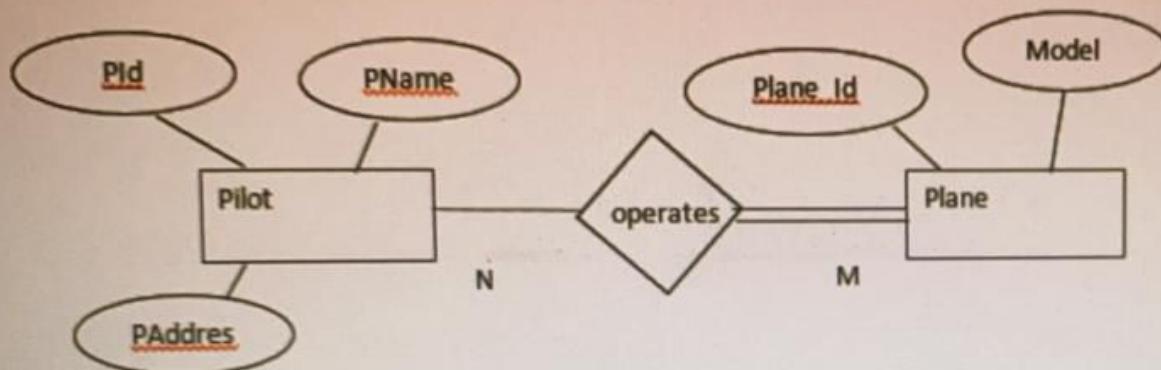
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Ensuring the task is done by right person, at the right time in the right order is the expectation of,

Select one:

- a. Workflow management system
- b. e-commerce system
- c. Process control system
- d. Enterprise Resource Planning system
- e. Supply chain management system

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



Select one or more:

- a. A pilot operates zero or more planes
- b. There can be some pilots without operating any plane
- c. A plane is operated by one or more pilots
- d. Each pilot operates only one plane
- e. A plane is operated by only one pilot

Employee(emplID, firstName, lastName, joinDate, basicSalary, departID) PK: empID

Consider the above Employee table and find the correct SQL Function that is necessary when writing the answers for the following three SQL queries.

A. Print the highest basic salary of an employee in the Employee table: MAX(parameter_A) ▾

B. Print the length of "firstName" for each employee from Employee table: LENGTH(parameter_A) ↴

Choose...

CHAR(parameter_A)

TOTAL(parameter_A)

LENGTH(parameter_A)

C. Print the "firstName" from Employee table after replacing each 'a' with 'A' parameter_B, parameter_C ▾

Next page

**Question 9**

Not yet answered

Marked out of
2.00

Flag question

Which of the following statements is incorrect?

Select one:

- a.
An information system user is also known as an end-user.
- b.
End-user is not a computer professional.
- c.
An information system user is a computer-oriented person who gains some benefit from using an information system.
- d. The developer who developed the Information System is not an IS user.
- e.
An information system user uses an information system in his or her personal or work life.

Next page

Quiz navigation

INSTRUCTIONS

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EXAM QUESTIONS

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17	18	19	20
21	22	23	24

COMMENTS

31

Finish attempt

Time left 0:20:48

C | i | A

Select the correct answer for the missing part of the following statement.

When execute the following Delete statement

```
DELETE  
FROM Department  
WHERE dNo = 2;
```

- Choose...
- Choose...
- Key**
- Referential Integrity
- None of the given
- Domain
- Entity Integrity

constraint will be violated.

Employee

empNo	name	salary (US\$)	dno
EM1201	Sandra	400	1
EM2390	Alex	315	1
EM2213	John	560	2

Department

dNo	name
1	HR
2	Finance

Question 17

Not yet answered

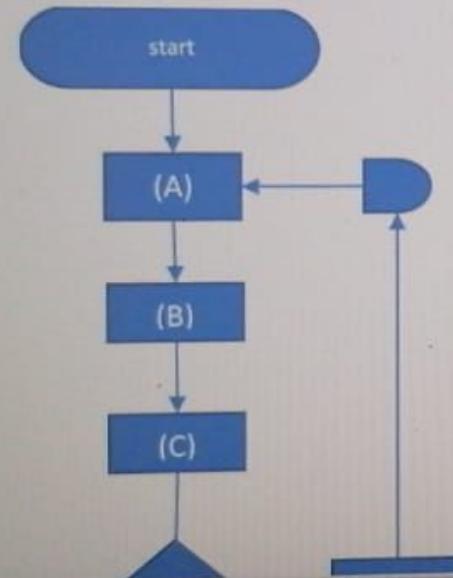
Marked out of
6.00 Flag question

E-Tutor is an online learning platform which allows the students to pay and learn online with their preferred tutors.

Students first register with the E-Tutor (hosting website) by creating a user account (A). Then the student should select the preferred tutor from the list of tutors (B). To make the payment for the session, student is directed to a payment gateway (C). If the payment is successful, student will receive a link to join the class (D). If the payment is unsuccessful, student is directed back (E) to the E-Tutor web site to reattempt. That will introduce a delay.

Which of the following process maps is best fitting with the above scenario?

Select one:

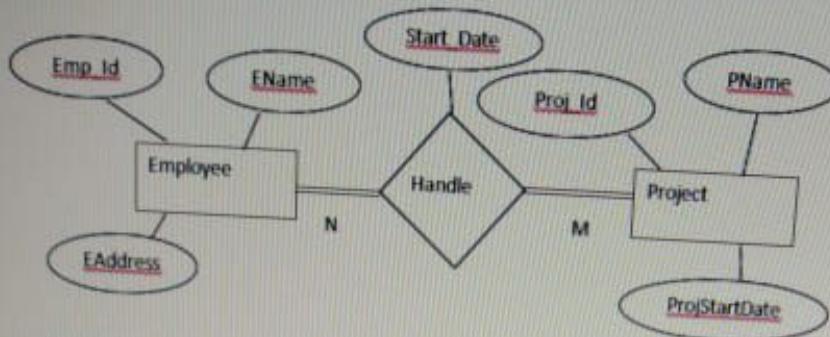
**Quiz navigation****INSTRUCTIONS** 1**EXAM QUESTIONS**

1	2	3	4	5	6
9	10	11	12	13	14
17	18	19	20	21	22
25	26	27	28	29	30

COMMENTS 31

Finish attempt...

Time left 1:14:28



Which statement/s are true related to the given ER diagram?

Select one or more:

- a. Descriptive attribute 'Start_Date' gives the date an employee started handling a particular project
- b. Each and every employee must handle a project
- c. We can find the total number of projects handled by each employee, using a database created with this design
- d. An employee may or may not handle a project. But a project must be handled by at least one employee
- e. A project must be handled by one or more employees

[Next page](#)

Select the correct answer for the missing part of the following statement.

When execute the following insert statement

INSERT INTO Department(name) VALUES ('Ma

- Choose...
- Choose...
- Referential Integrity
- Check
- Key
- Entity Integrity
- Domain

constraint will be violated.

Employee

empNo	name	salary (US\$)	dno
EM1201	Sandra	400	1
EM2390	Alex	315	1
EM2213	John	560	2

Department

dNo	name
1	HR
2	Finance

Info in to 3rd normal form?

*
1
2
3
4
5

Next page

Online Exams

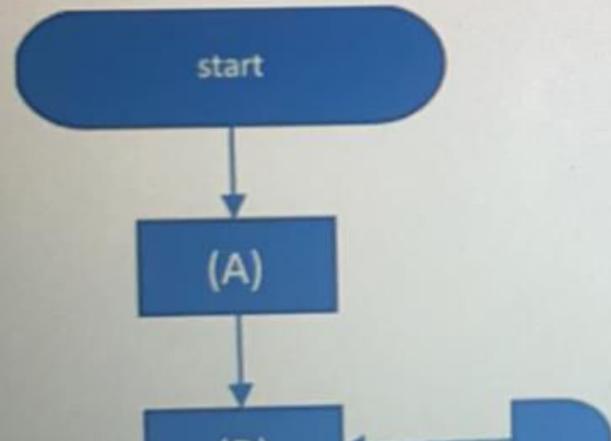
Sri Lanka Institute of Information Technology

E-Tutor is an online learning platform which allows the students to pay and learn online with their preferred tutors.

Students first register with the E-Tutor (hosting website) by creating a user account (A). Then the student should select the preferred tutor from the list of tutors (B). To make the payment for the session, student is directed to a payment gateway (C). If the payment is successful, student will receive a link to join the class (D). If the payment is unsuccessful, student is directed back (E) to the E-Tutor web site to reattempt. That will introduce a delay.

Which of the following process maps is best fitting with the above scenario?

Select one:



Online Exams

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- b) How many relations you can get when normalize the relation Patient_Info in to 3rd normal form?

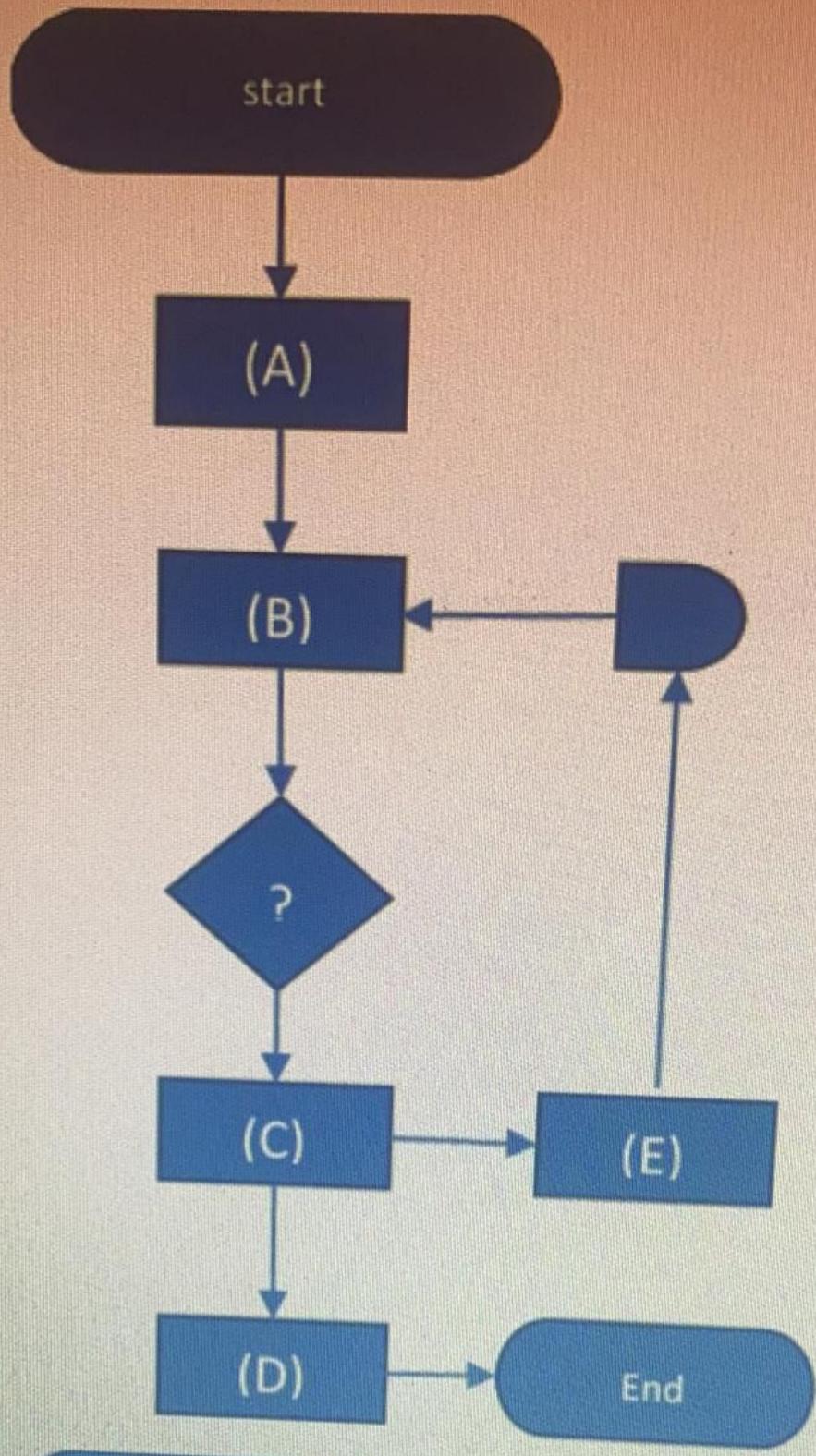
Patient_Info (patient, consultant, hospital, address, date, time)

patient, consultant → hospital, address, date, time

hospital → address

Next page

Select one:



a.

able it is possible for

Choose...

▼ constraint to

Choose...

Key

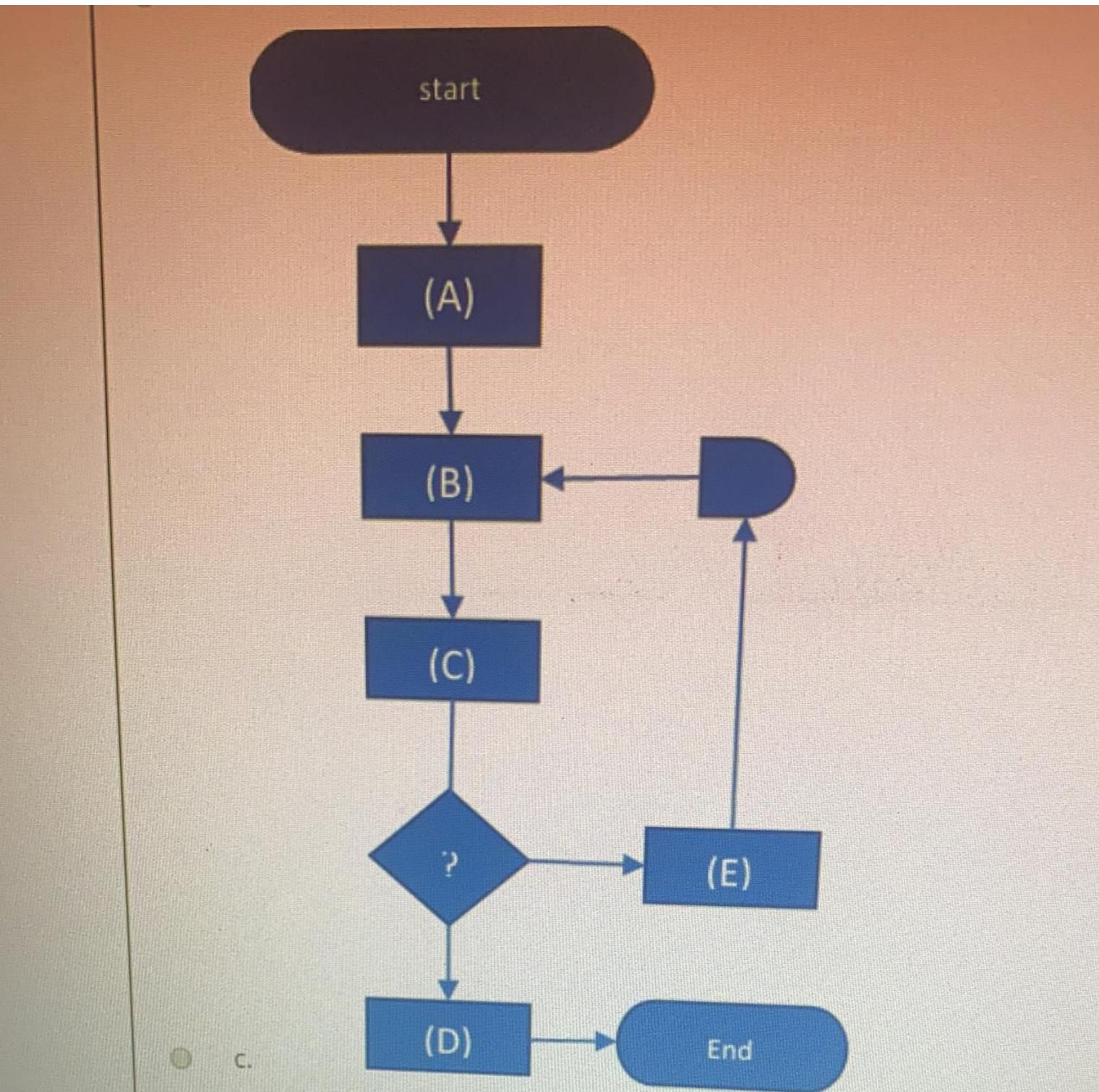
Domain

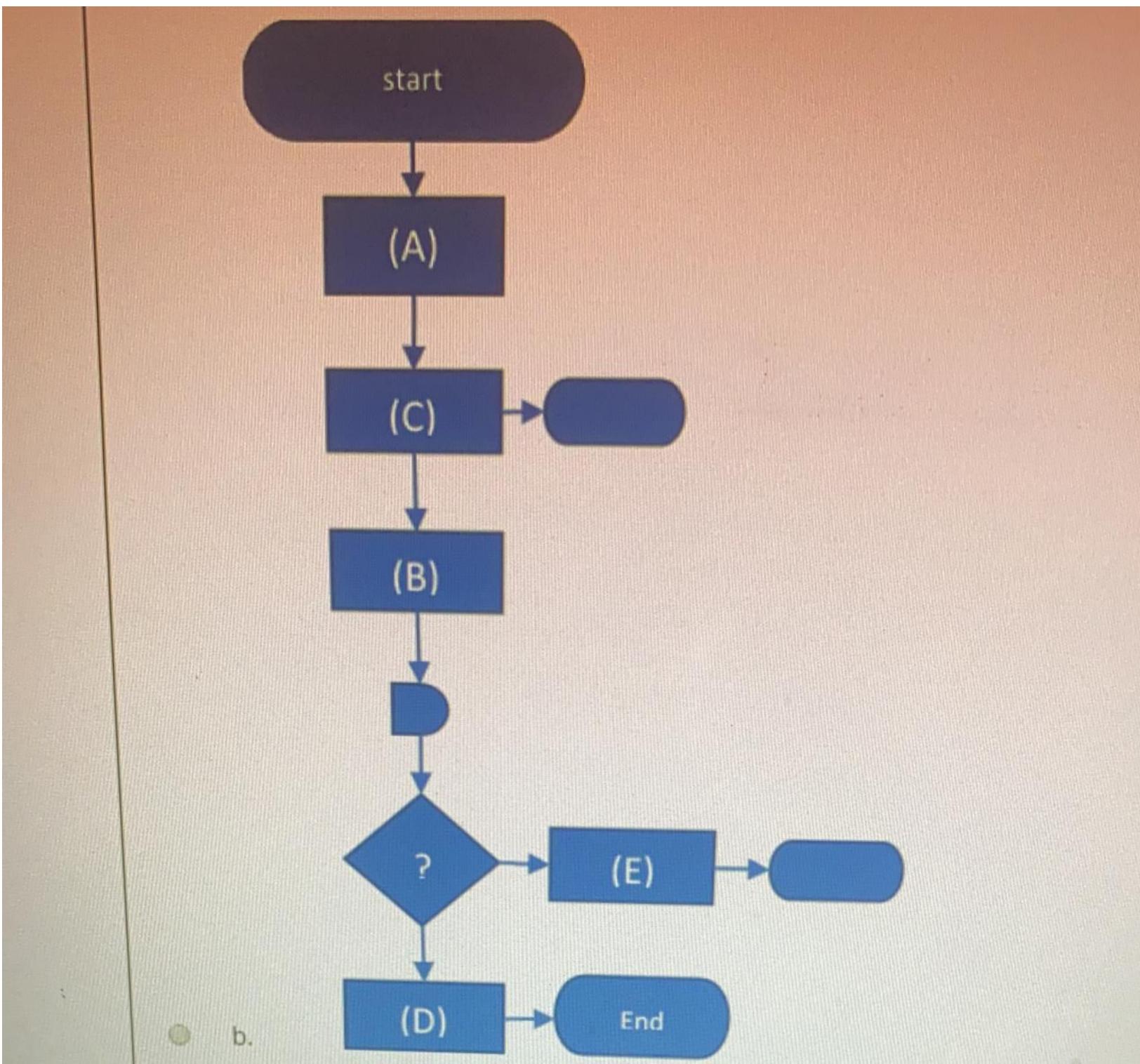
Entity Integrity

All given

Referential Integrity

Next page







14
answered
out of
question

Select the correct answer for the missing part of the following statement.

When executing DELETE command to remove a record from a following given table it is possible for Choose... constraint to get violated.

Employee

empNo	name	salary (US\$)	dno
EM1201	Sandra	400	1
EM2390	Alex	315	1
EM2213	John	560	2

Department

dNo	name
1	HR
2	Finance

Quiz navigation

INSTRUCTIONS

1

EXAM QUESTIONS

1	2	3	4
9	10	11	12
17	18	19	20
25	26	27	28
31			

COMMENTS

31

Finish attempt ...

Time left 1:32:51

Sri Lanka Institute of Information Technology

Select the correct answer for the missing part of the following statement.

When executing DELETE command to remove a record from a following given table it is possible for constraint to get violated.

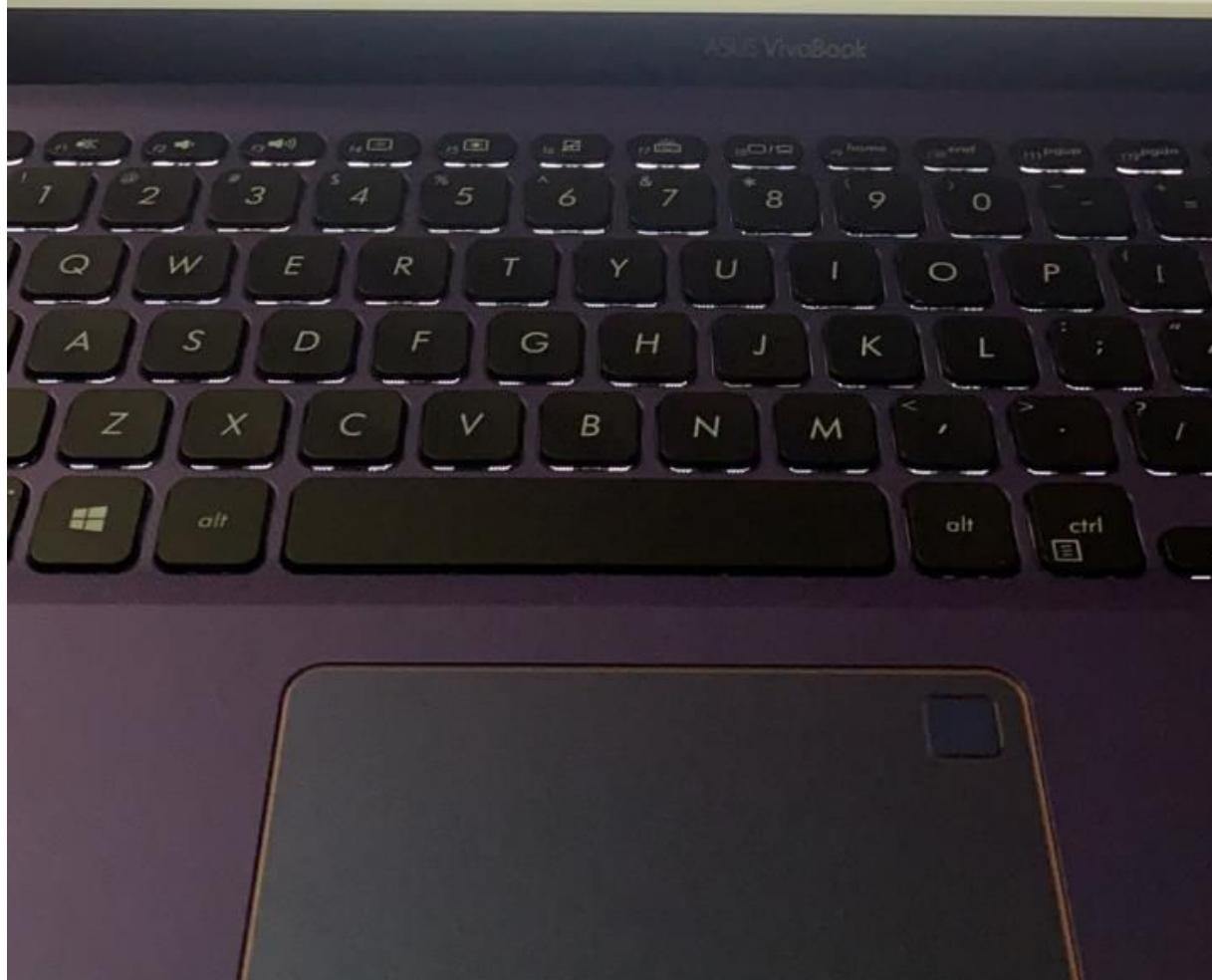
Employee

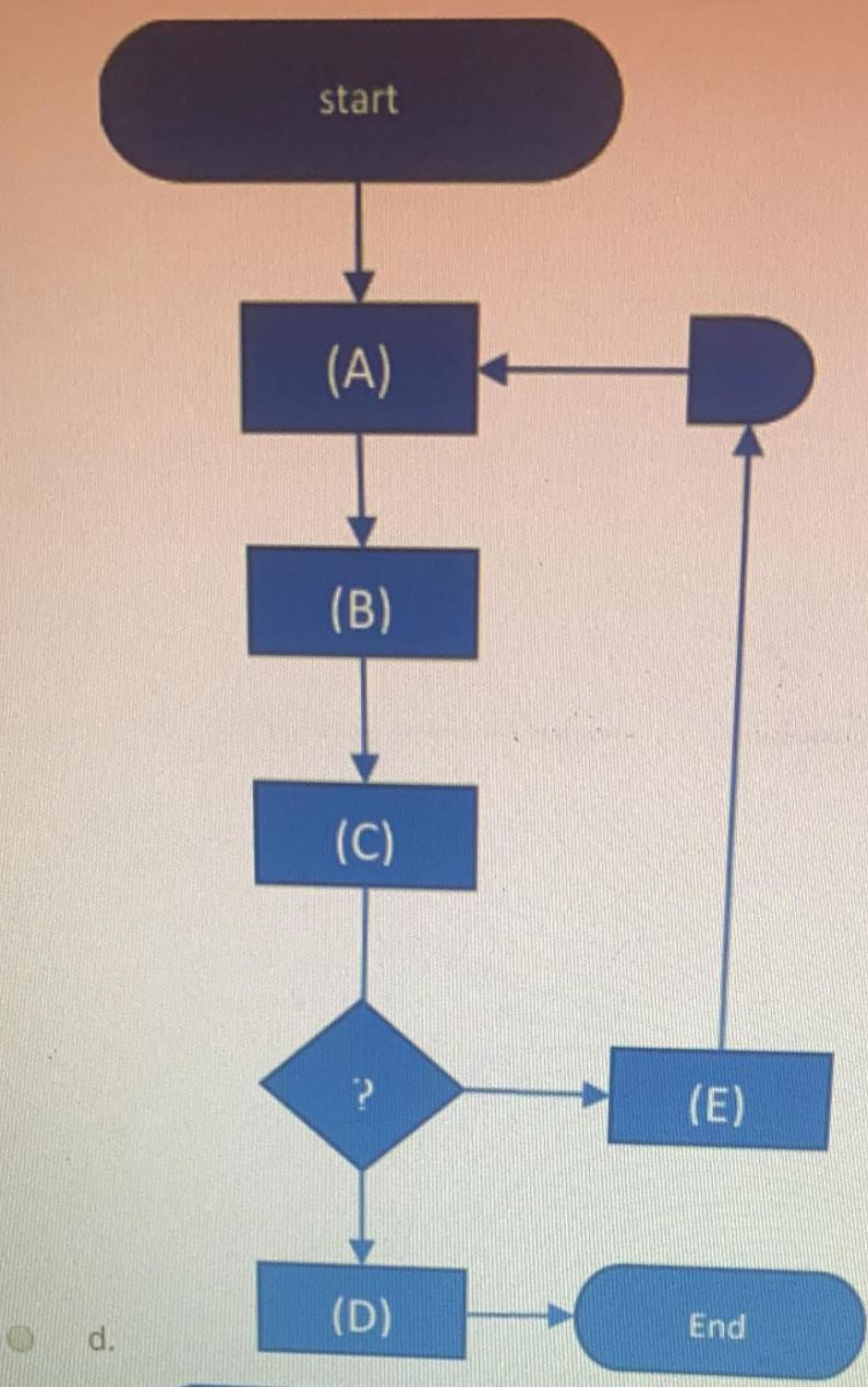
empNo	name	salary (US\$)	dno
EM1201	Sandra	400	1
EM2390	Alex	315	1
EM2213	John	560	2

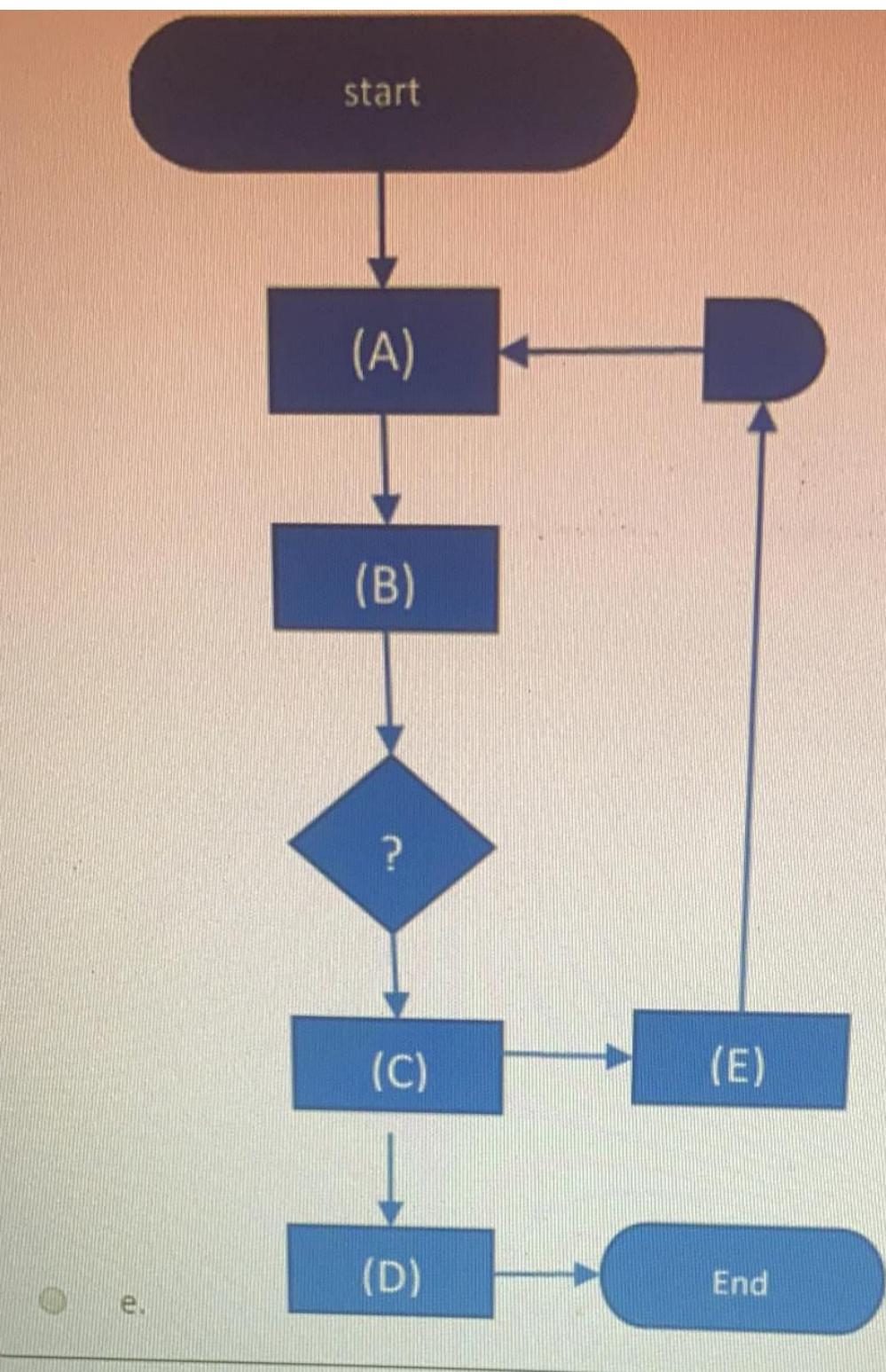
Department

dNo	name
1	HR
2	Finance

[Next page](#)







●

e.

Question 4

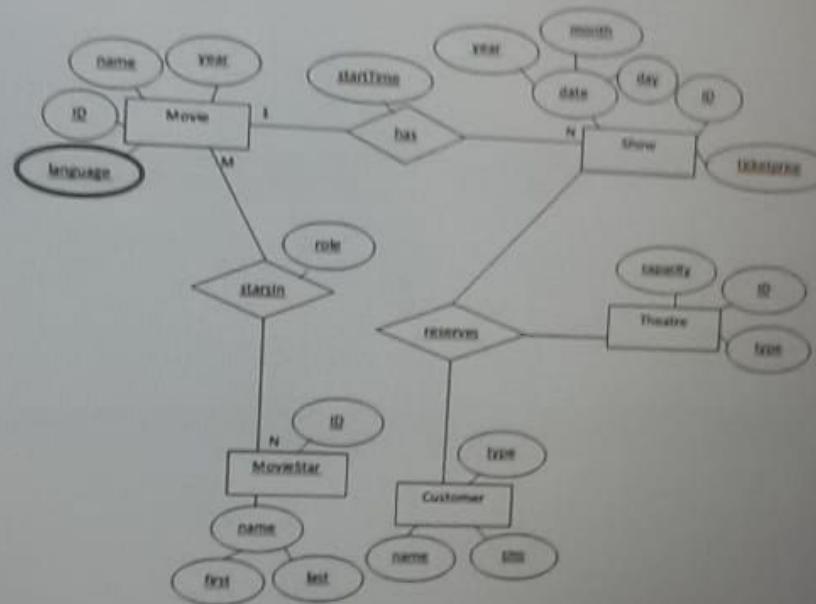
Not yet answered

Marked out of
5.00

Flag question

Institute of Information Technology

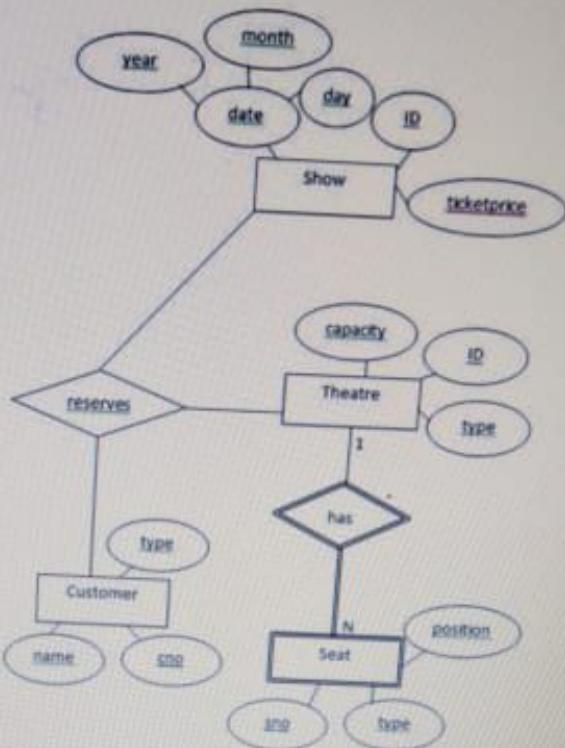
Which of the following is/ are false about the schema resulted after mapping the below ER diagram to the relational model?



Select one or more:

- a. Primary key showID in the Show table is referred by the 2 tables
- b. Reserves table has 2 foreign keys
- c. Primary key cno in the Customer table is referred by the 2 tables
- d. Primary key ID in the MovieStar table is referred by one table
- e. Degree of the MovieStar table is 3

Select the table(s) which has TheaterID as a foreign key



Select one:

- a. Theater
- b. Reserves, Seat
- c. Reserves, Theatre
- d. Seat
- e. Theater, Seat

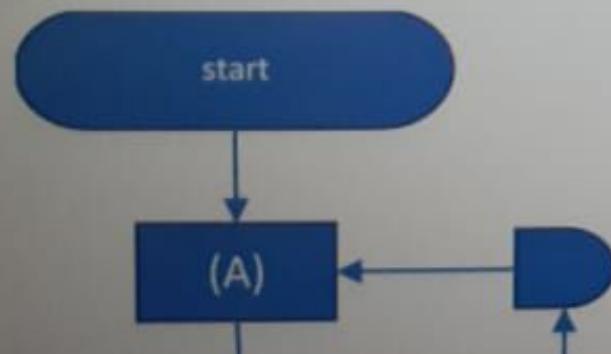
Online Exams

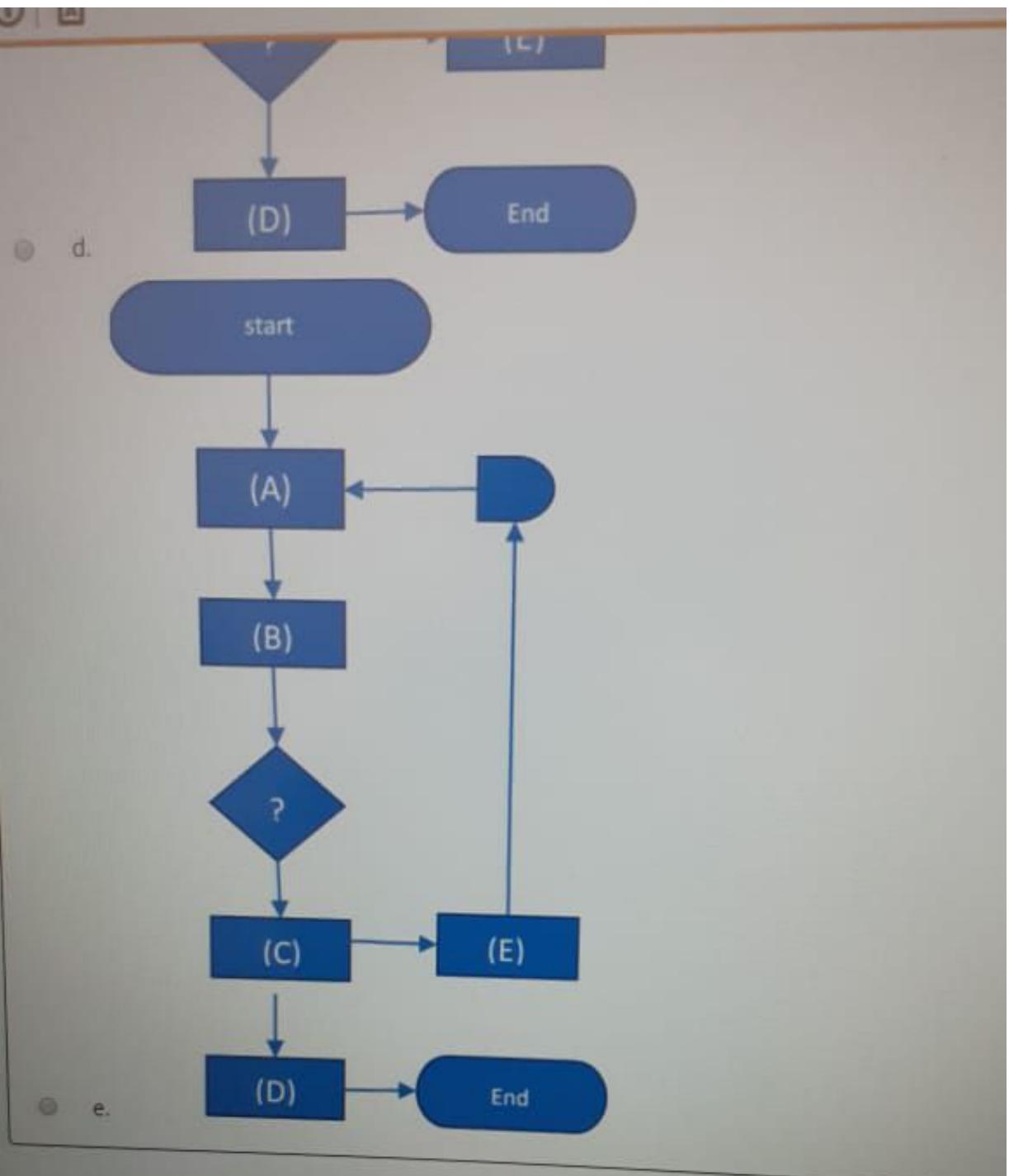
Sri Lanka Institute of Information Technology

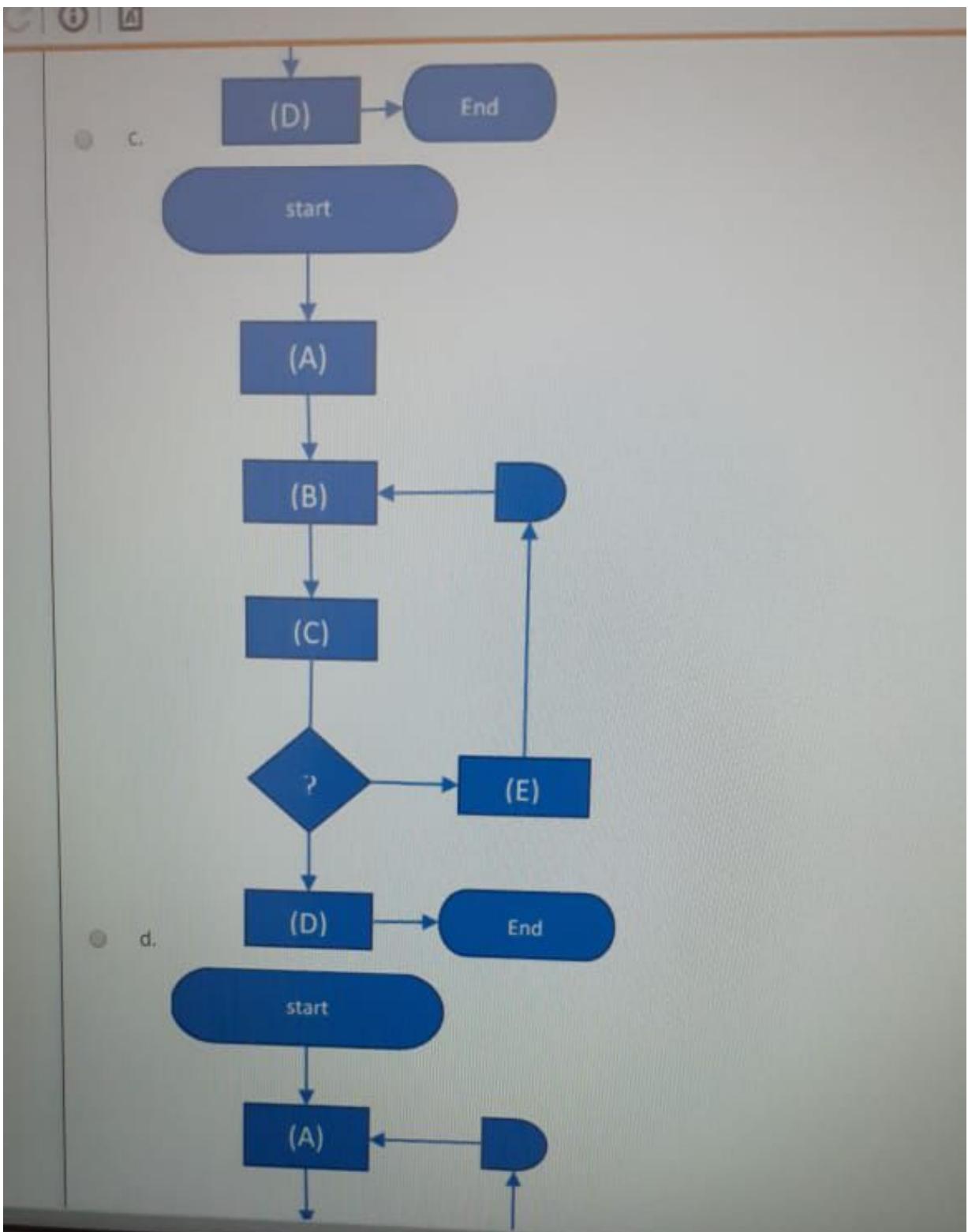
E-Tutor is an online learning platform which allows the students to pay and learn online with their preferred tutors. Students first register with the E-Tutor (hosting website) by creating a user account (A). Then the student should select the preferred tutor from the list of tutors (B). To make the payment for the session, student is directed to a payment gateway (C). If the payment is successful, student will receive a link to join the class (D). If the payment is unsuccessful, student is directed back (E) to the E-Tutor web site to reattempt. That will introduce a delay.

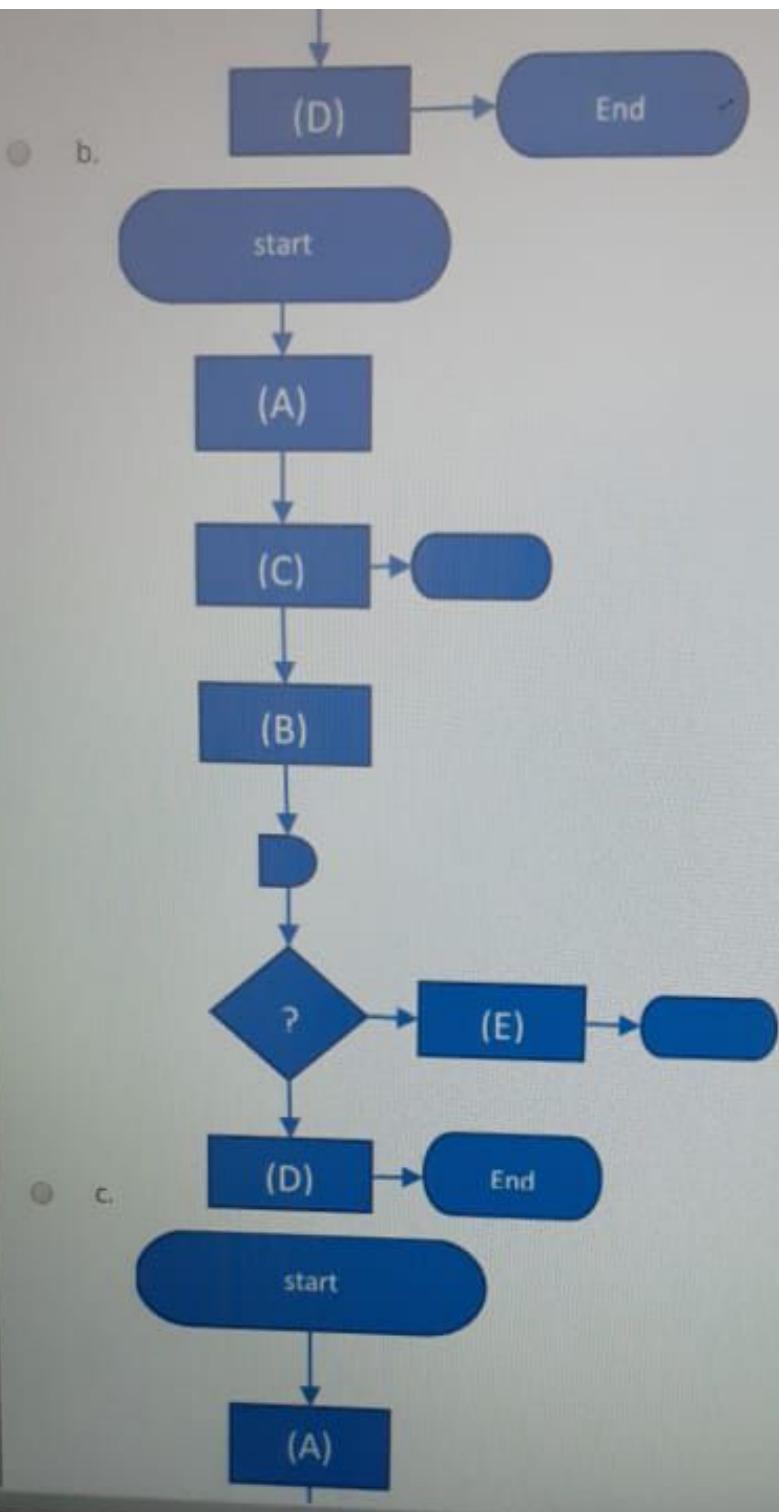
Which of the following process maps is best fitting with the above scenario?

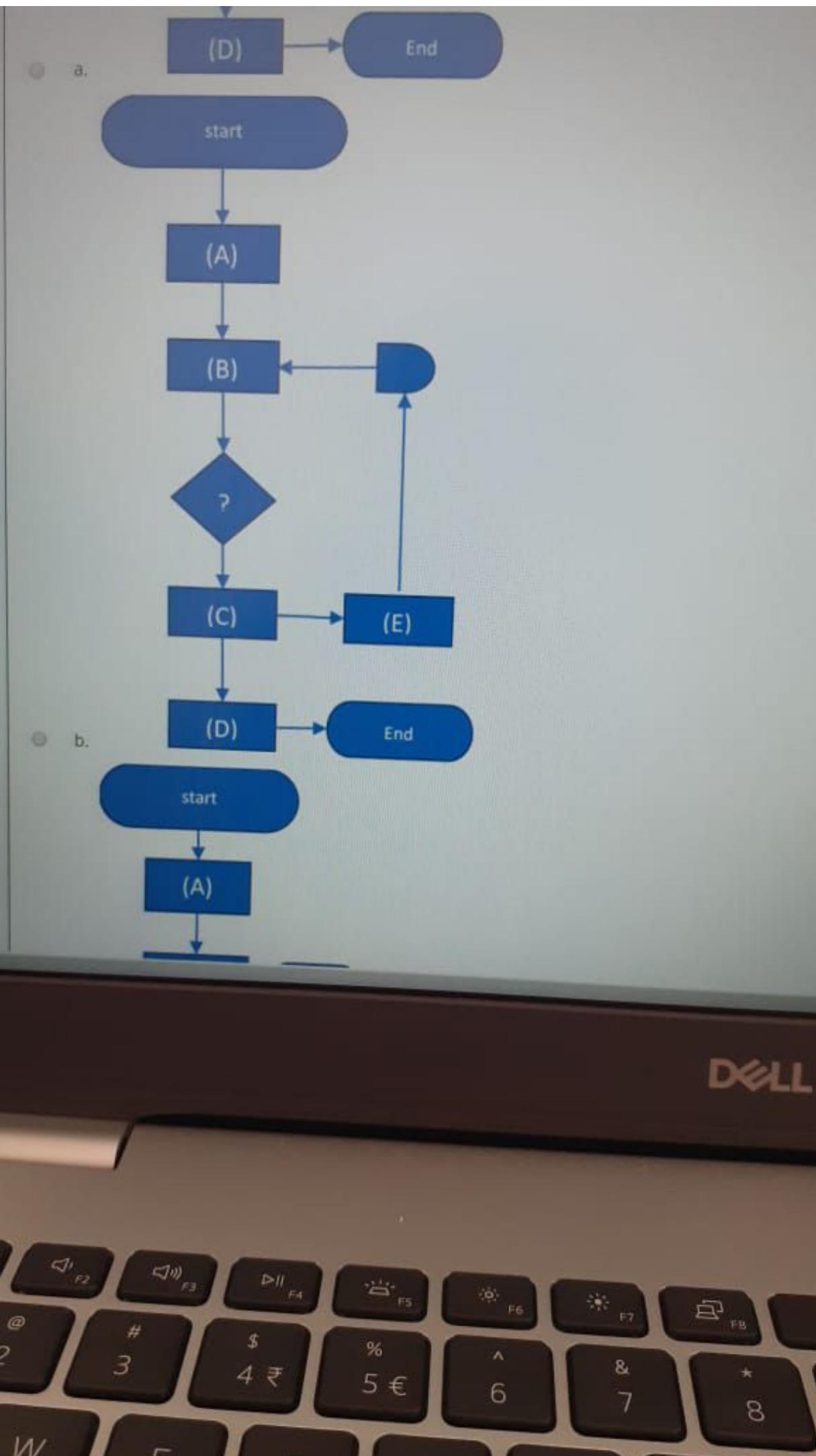
Select one:



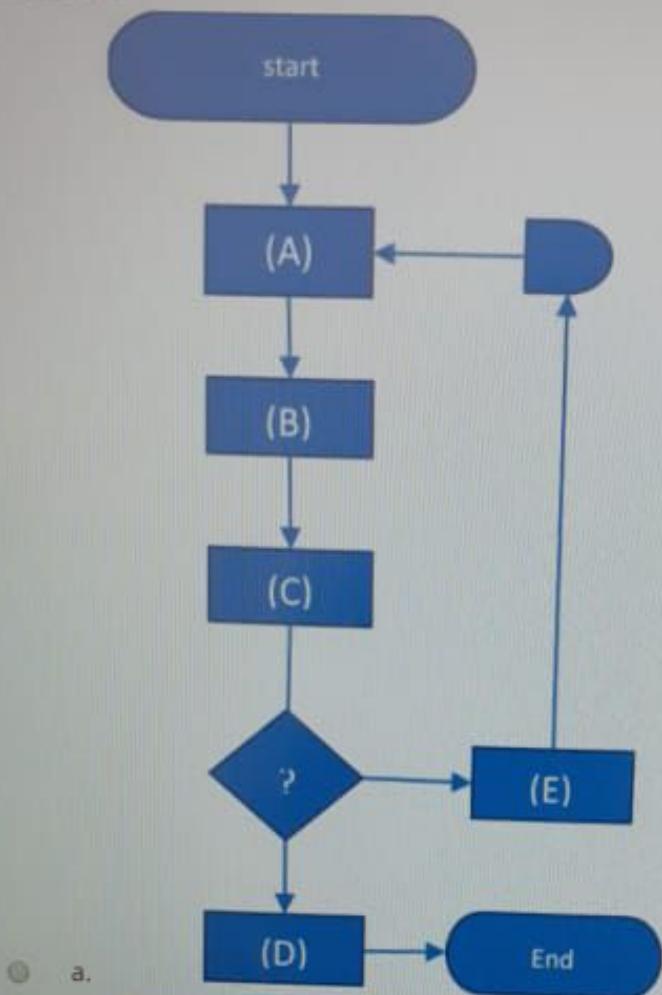




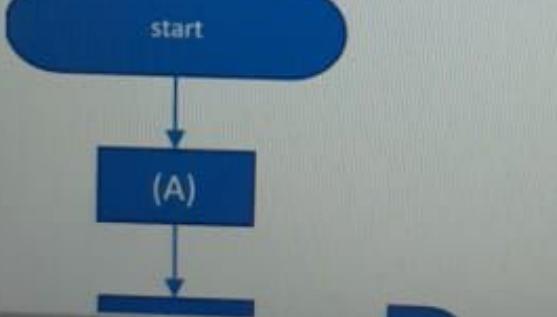




Select one:



a.



DELL





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21

Answered

out of

question

How many levels of data abstraction will include in a database management system?

Select one:

- a. 3
- b. 0
- c. 4
- d. 2
- e. 1

Next page

Which one of the following statements about normal forms is TRUE ?

Select one:

- a. The third normal form is used to eliminate the duplicate data.
- b. A relation is in second normal form if every field contains only atomic values.
- c. Every relation in 3NF is also in BCNF.
- d. If every non-key attribute is functionally depending on primary key, then the relation will be in second normal form
- e. No relation can be in both BCNF and 3NF.

Next page

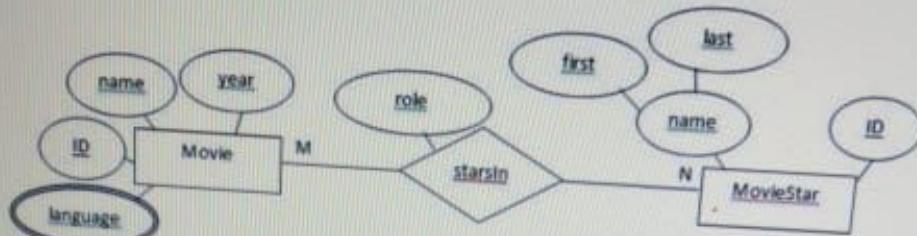


9

Answered
out of

Question

Which relation has the descriptive attribute 'role' after map the following ER model into the relational model?



Select one:

- a. None of the given answers
- b. MovieStar
- c. Movie_Language
- d. Movie
- e. Starsin

Database systems comprise of complex data structures. Thus, to make the system efficient for retrieval of data and reduce the complexity of the users, developers use the method of Data Abstraction.

The is the highest level in the data abstraction which shows/states only a part of the database.

-
-
- Internal Level
- Conceptual Level
- External Level
- Logical Level
- User Level

[Next page](#)

Consider the following schema which provides information about items.

Item (item_no, supplier_no, item_name, quantity_in_hand, reorder_level)

Find the most suitable SQL query for the given question.

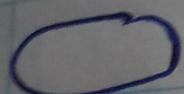
Display the item no and quantity which has the most quantity in hand.

Select one:

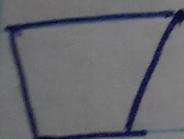
- a. Select item_no, SUM (quantity_in_hand) From Item
- b. Select item_no, MAX (quantity_in_hand) From Item
- c. Select item_no From Item
- d.
Select item_no, quantity_in_hand From Item
- e. Select MAX(item_no, quantity_in_hand) From Item

- Ques
- What is happening?
 - When is it happening?
 - Who is doing it?
 - Where is it happening?
 - How long does it take?
 - How is it being done?
 - Why is it being done?

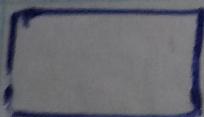
Process Mapping - Notation



- Start or end



- A manual operation
a sub process



- Totally automated
depicted as a square



- Decision



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Question 10

Not yet answered

Marked out of
4.00

Flag question

Consider the following schema which provides information about student results

Results (StudentNo, SubjectNo, Marks)

Find the most suitable SQL query for the given question.

Display a list of student numbers and marks for subject 'IT1090' in descending order of marks.

Select one:

- a. SELECT StudentNo,Marks FROM Results WHERE SubjectNo='IT1090' ORDER BY Marks ;
- b. SELECT StudentNo,Marks FROM Results WHERE SubjectNo='IT1090' ;
- c. SELECT StudentNo,Marks FROM Results WHERE SubjectNo='IT1090' ORDER BY Marks DESC;
- d. SELECT StudentNo,Marks FROM Results WHERE SubjectNo='IT1090' ORDER BY Marks, StudentNo DESC ;
- e. SELECT StudentNo,Marks FROM Results SORT BY Marks DESC;



Next

Moodle

x

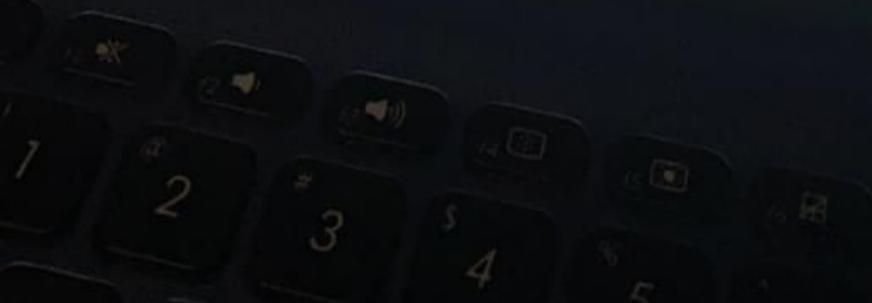
← → X C | i | A

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URL: <https://onlineexams.sliit.lk/mod/quiz/processattempt.php?cmid=2144>
Error: (-106)
ERR_INTERNET_DISCONNECTED



ASUS VIVO B



Sri Lanka Institute of Information Technology

Consider the relation Employee(Empid, NIC, Ename, Address, Salary) with the following functional dependencies:

$\text{Empid} \rightarrow \text{NIC, Ename, Address, Salary}$

$\text{NIC} \rightarrow \text{Empid, Ename, Address, Salary}$

What is the best normal form that Employee satisfies?

Select one:

- a. First Normal Form
- b. Second Normal Form
- c. Unnormalized Form
- d. Third Normal Form
- e. BCNF

Next

LockDown Browser - Version 2.0.6.07

Do NOT close the browser until the exam is complete. Your instructor will be notified if you exit the exam early.

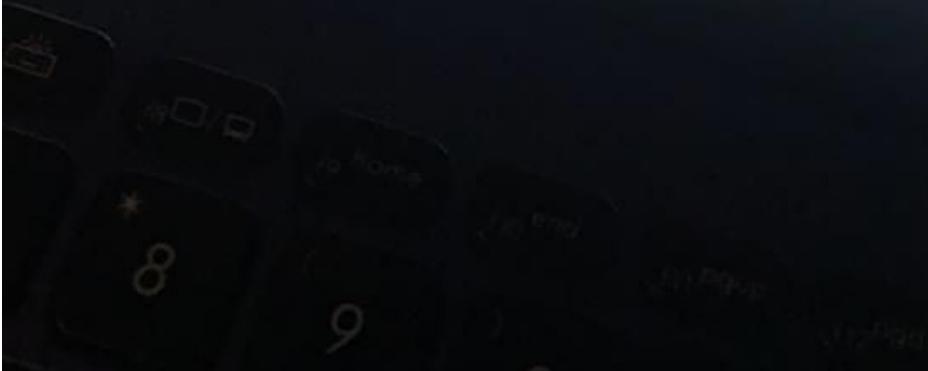
[Return to Exam](#)

[Close the Browser](#)

X



ASUS VivoBook



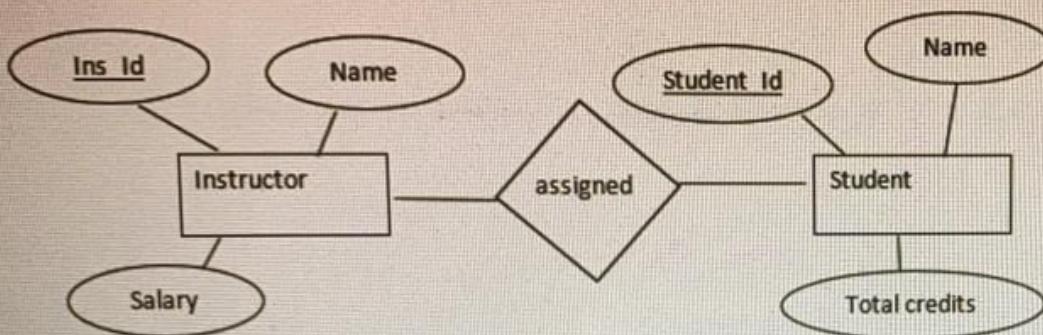
Information systems contribute in many ways to the business except,

Select one:

- a.
Balance the workload among employees.
- b.
Support and improve day-to-day operations in an organization.
- c.
Support the problem solving and decision-making needs of various people.
- d.
Collect, process, store, analyze, and disseminate information for a specific purpose.
- e. Improve the productivity of employees

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

Consider the relation Employee(Empid, NIC, Ename, Address, Salary) with the following functional dependencies

$\text{Empid} \rightarrow \text{NIC, Ename, Address, Salary}$

$\text{NIC} \rightarrow \text{Empid, Ename, Address, Salary}$

What is the best normal form that Employee satisfies?

Select one:

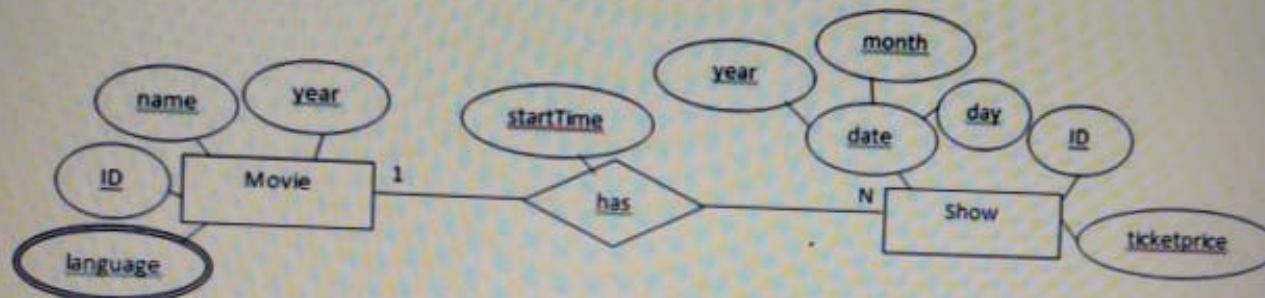
- a. First Normal Form
- b. Unnormalized Form
- c. Second Normal Form
- d. Third Normal Form
- e. BCNF

Next page



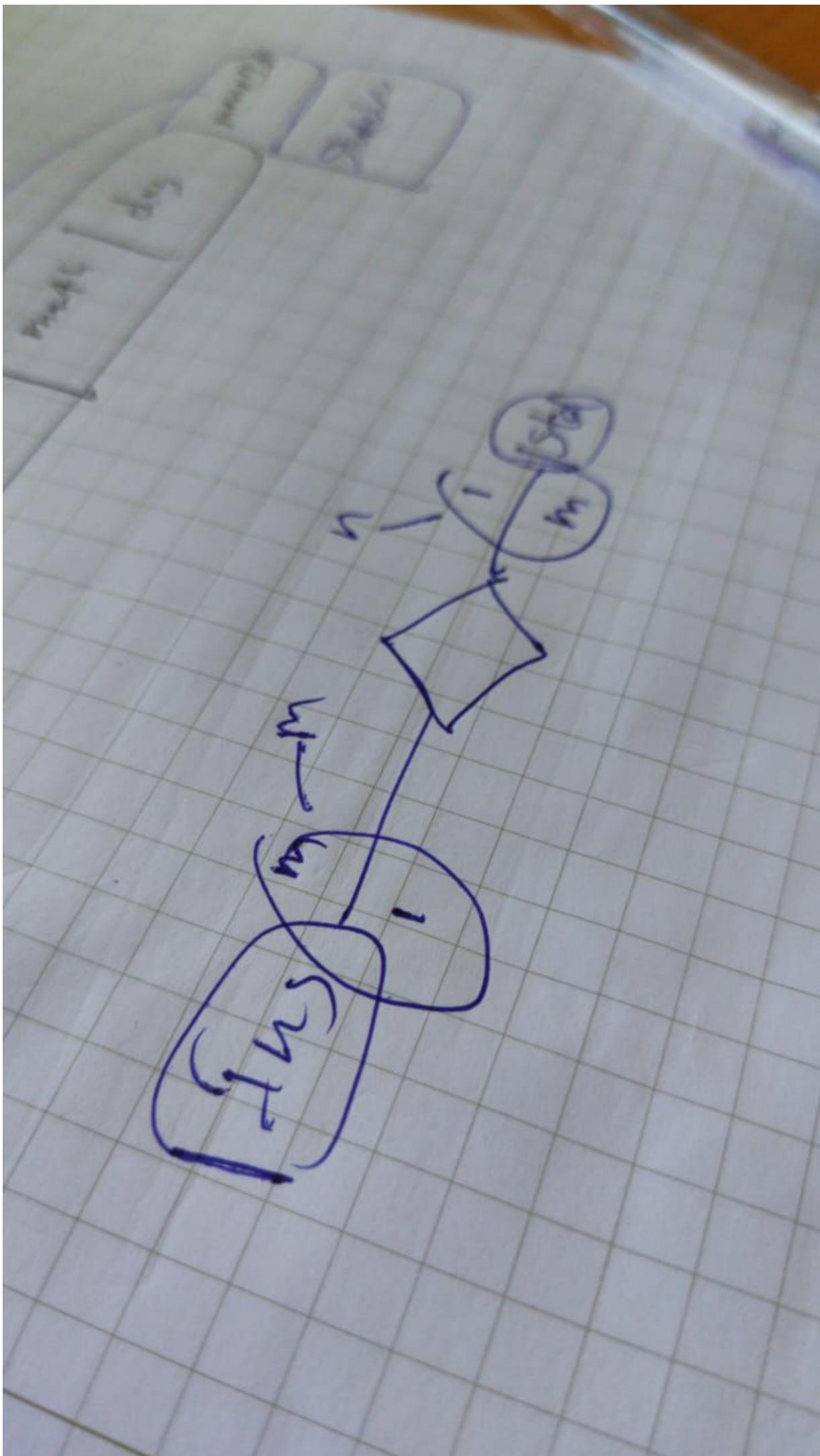
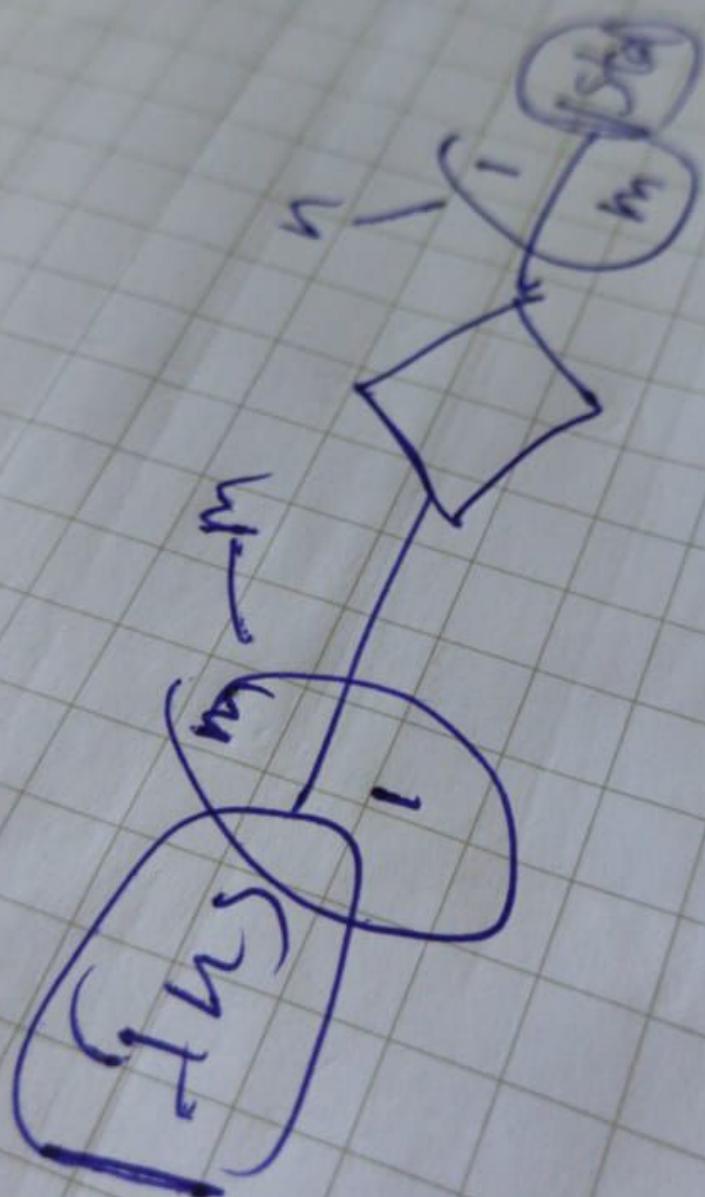


Which of the following is/ are **true** about the schema resulted after mapping the below ER diagram to the Relational model?



Select one or more:

- a. The relation 'show' includes 7 attributes
- b. The relation containing startTime attribute has 2 foreign keys
- c. The relation 'show' has the movieID as the foreign key
- d. The relation containing 'startTime' attribute has a composite primary key
- e. The relation containing startTime has language as the foreign key





Online Exams

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Question 14

Not yet answered:

Marked out of
2,00

Flag question

A third Normal Form relation

Select one:

- a. must be in BCNF
- b. may be in second normal form.
- c. not be in first normal form.
- d. may contain multivalued attributes.
- e. not contain any transitive dependencies for non-prime attributes.

Next page

DELL



red
ion
Useful information has qualities except.

Select one:

- a. Combined
- b. Correct
- c. Relevant
- d. Current
- e. Complete



Online Exams

Sri Lanka Institute of Information Technology

Question 15

Not yet answered

Marked out of
2.00

Flag question

A relation is in first normal form if it does not contain any repeating groups.

Select one:

- True
- False



Online Exams

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Which of the following is/are the most popular database models?

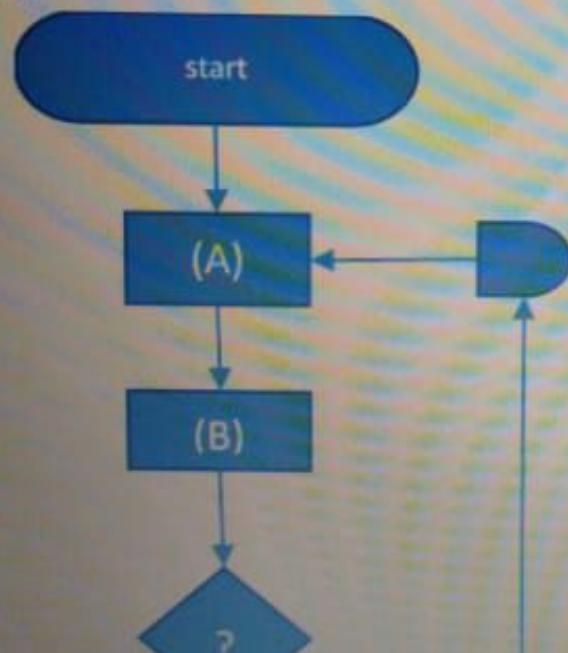
Select one or more:

- a. Object oriented model
- b. Relational model
- c. Hierarchical model
- d. Star schema model
- e. Network model

E-Tutor is an online learning platform which allows the students to pay and learn online with their preferred tutors. Students first register with the E-Tutor (hosting website) by creating a user account (A). Then the student should select the preferred tutor from the list of tutors (B). To make the payment for the session, student is directed to a payment gateway (C). If the payment is successful, student will receive a link to join the class (D). If the payment is unsuccessful, student is directed back (E) to the E-Tutor web site to reattempt. That will introduce a delay.

Which of the following process maps is best fitting with the above scenario?

Select one:



≡ Quiz navig

INSTRUCTIONS

I

EXAM QUESTIONS

1 2 3

8 9 10

15 16 17

22 23 24

29 30

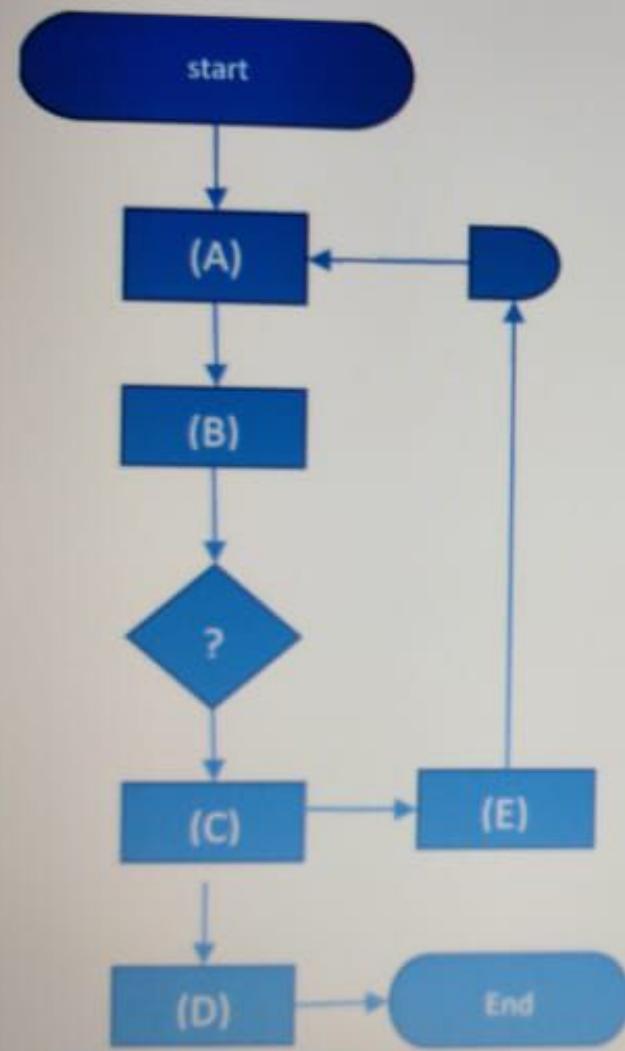
COMMENTS

31

Finish attempt ...

Time left 0:56:27

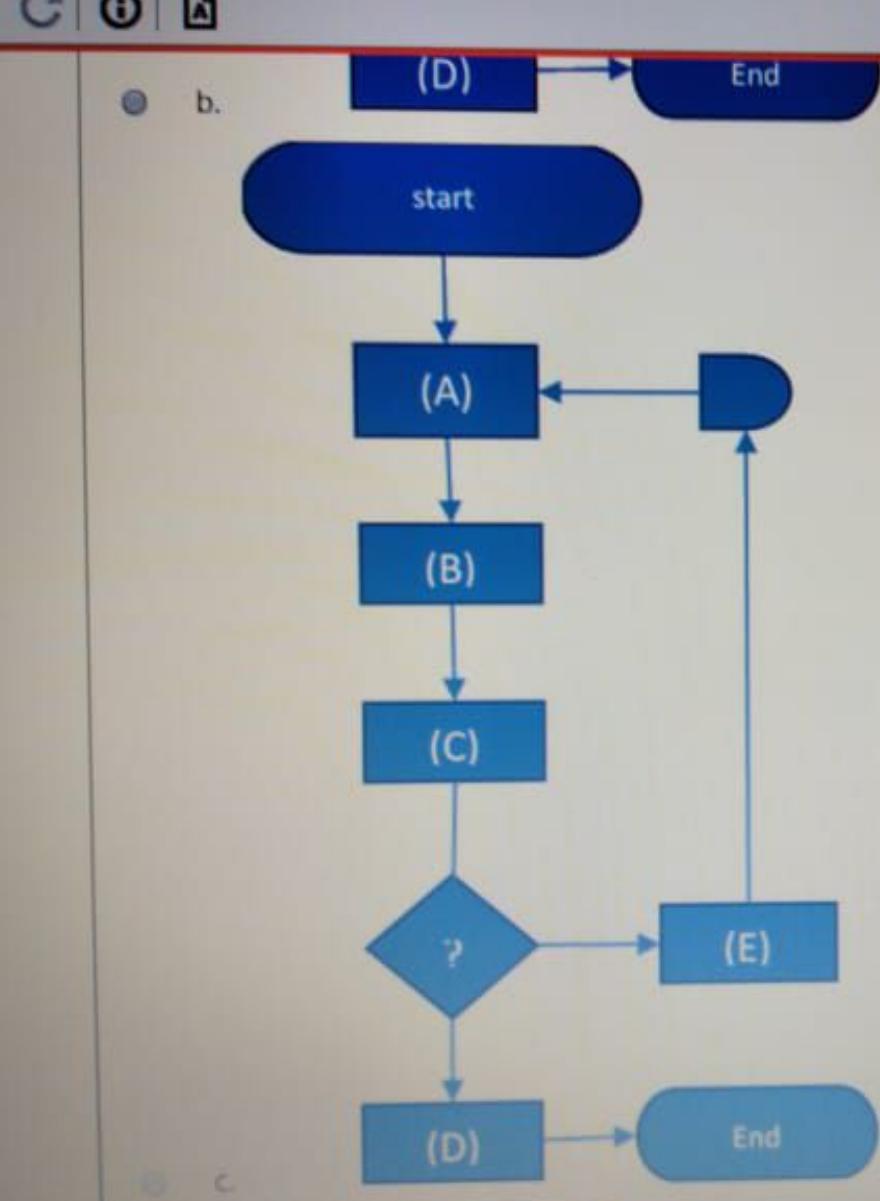
Select one:

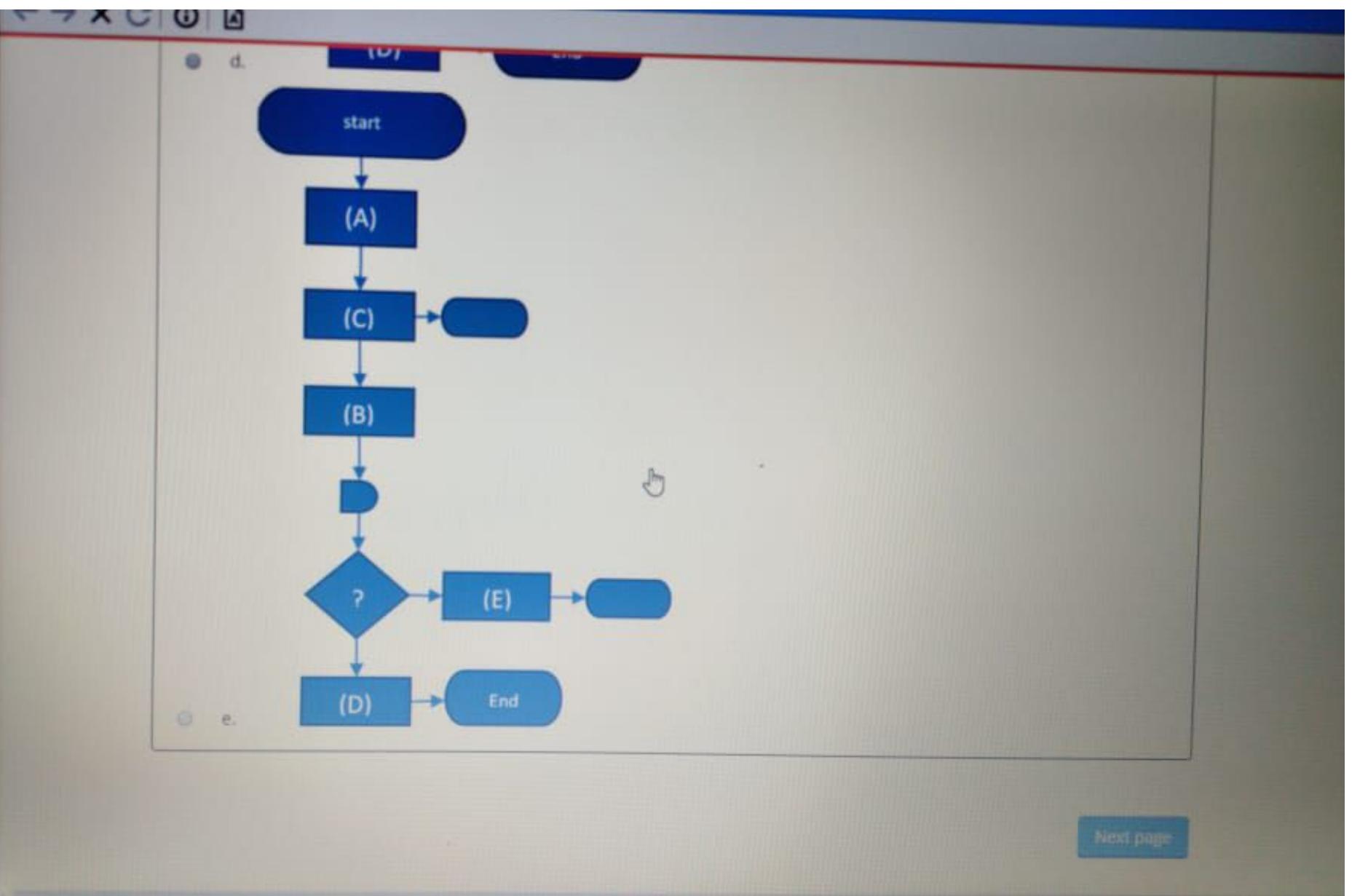


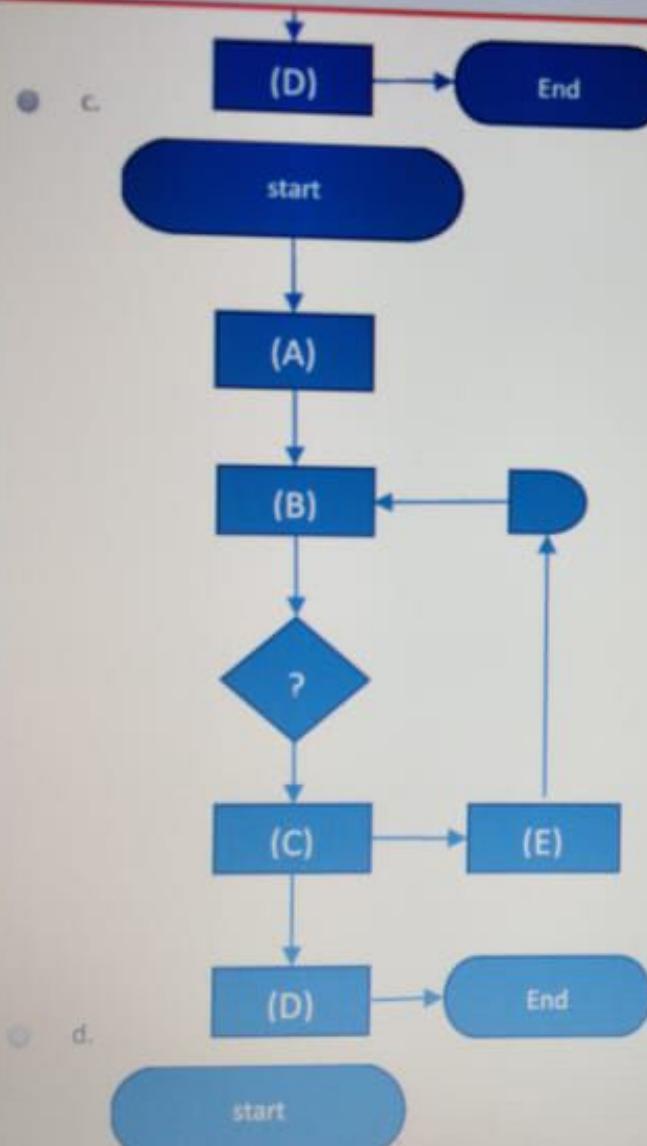
1	2
8	9
15	16
22	23
29	30
COMMENT	
31	

Finish atten

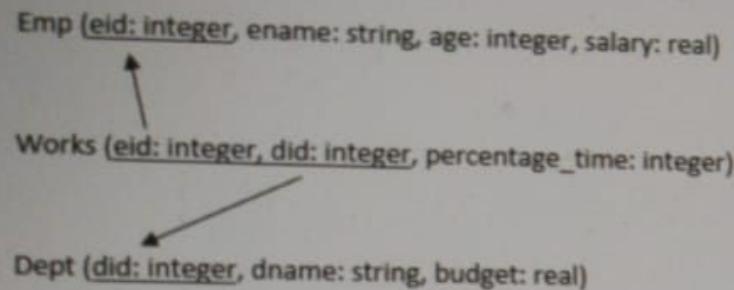
Time left 0:







Consider the following schema which provides information about employees and departments



Find the most suitable SQL query for the given question.

Find the employee name and the department name of all employees

Select one:

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

The **City Trade center** has started home delivering goods where customers can make the orders over the phone. For convenience and reliability, they prefer to keep more than one phone number per customer along with their delivery address. What is the most suitable attribute type to represent the phone number of customers?

Select one:

- a. Composite attribute
- b. Multiple attribute
- c. Multivalued attribute
- d. Descriptive attribute
- e. Simple attribute

[Next page](#)



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Online Exams

Sri Lanka Institute of Information Technology

26
answered
out of
question

Select the correct answer for the missing part of the following statement.

When execute the following insert statement constraint will be violated.

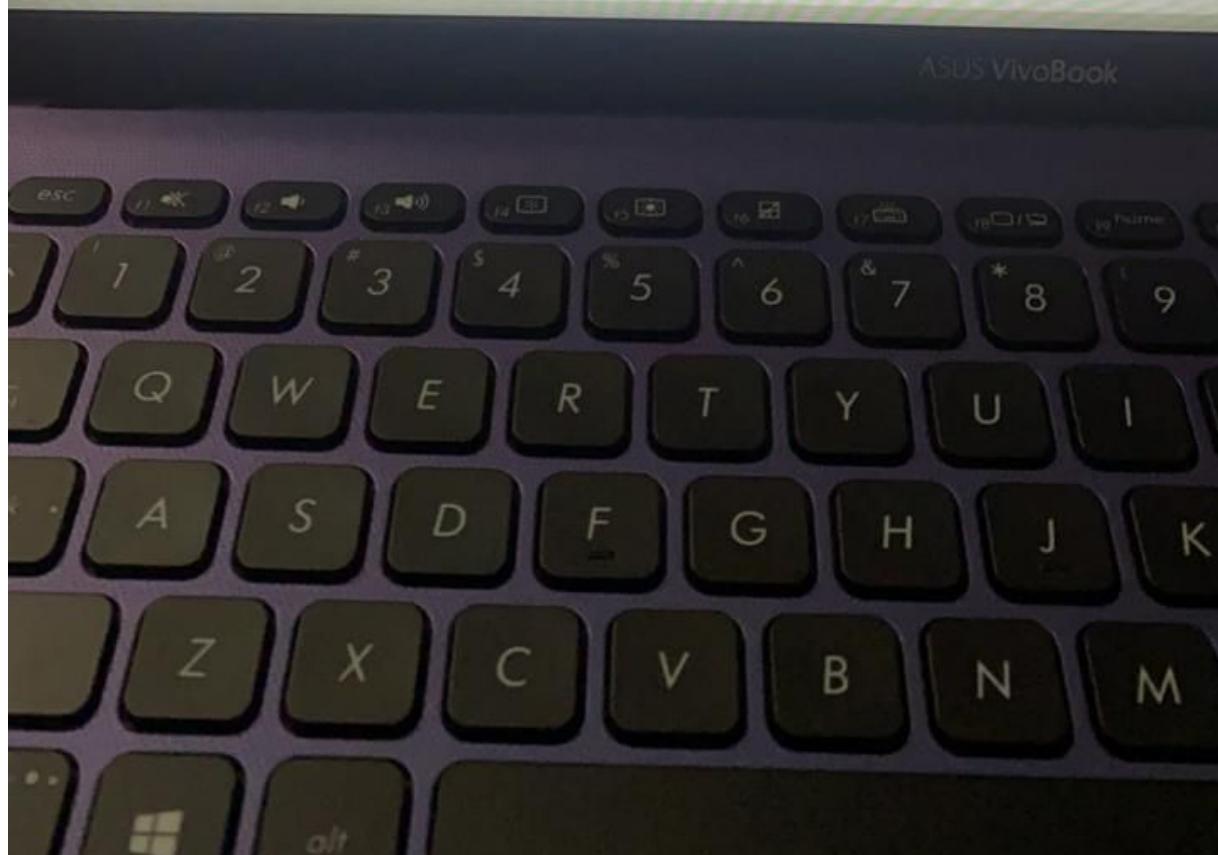
Referential Integrity
Entity Integrity
Check
Key
Domain

Employee

empNo	name	salary (US\$)	dno
EM1201	Sandra	400	1
EM2390	Alex	315	1
EM2213	John	560	2

Department

dNo	name
1	HR
2	Finance



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tion

Which of the following is the most suitable statement regarding "Information Systems"?

Select one:

- a. Should be computer-based
- b.
A series of components jointly work to achieve business goals.
- c. Help in the operations and management of an organization.
- d.
Collect and process information for a specific purpose.
- e.
Accept figures, processes figures and produce data.



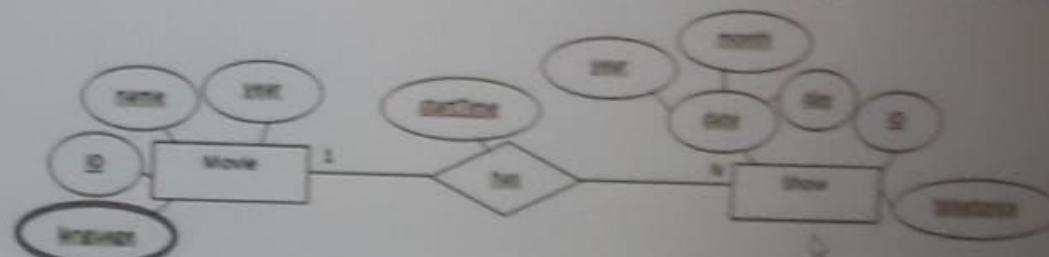
Question 17

Not yet answered

Marked out of
2.00

Flag question

Which of the following is/ are true about the schema resulted after mapping the below ER diagram to the Relational model?



Select one or more:

- a. The relation containing startTime attribute has 2 foreign keys
- b. The relation containing startTime has language as the foreign key
- c. The relation 'show' has the movieID as the foreign key
- d. The relation containing 'startTime' attribute has a composite primary key
- e. The relation 'show' includes 7 attributes

Online Exams

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Consider the following schema which provides information about student results
Results (StudentNo, SubjectNo, Marks)

Find the most suitable SQL query for the given question.

Display the average mark for 'IT1090' subject

Select one:

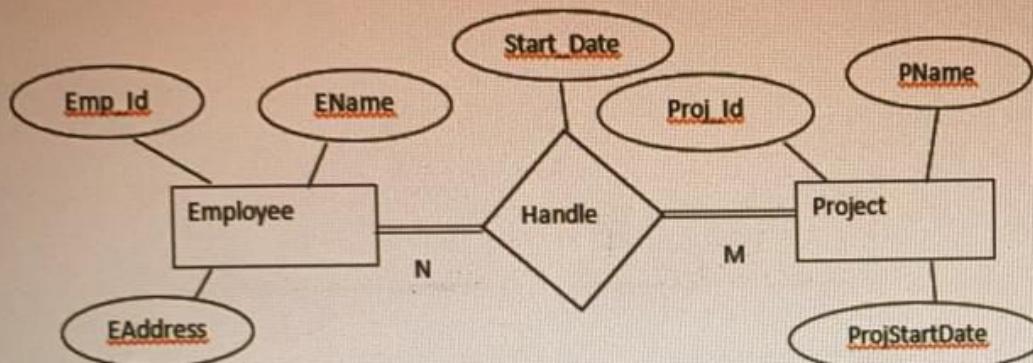
- a. SELECT AVG(Marks) FROM Results ORDER BY SubjectNo ='IT1090';
- b. SELECT AVG(Marks) FROM Results GROUP BY SubjectNo ='IT1090';
- c. SELECT SUM(Marks) FROM Results WHERE SubjectNo ='IT1090';
- d. SELECT AVG(Marks) FROM Results WHERE SubjectNo ='IT1090';
- e. SELECTMarks FROM Results WHERE AVG(Marks) ='IT1090';

Question 27

Not yet answered

Marked out of
0.0

Flag question



Which statement/s are true related to the given ER diagram?

Select one or more:

- a.
Each and every employee must handle a project
- b.
Descriptive attribute 'Start_Date' gives the date an employee started handling a particular project
- c.
An employee may or may not handle a project. But a project must be handled by at least one employee
- d. We can find the total number of projects handled by each employee, using a database created with this design
- e.
A project must be handled by one or more employees

Sri Lanka Institute of Information Technology

Question 18

Not yet answered

Marked out of
4.00

Flag question

Consider the following schema and complete the answer for the following given SQL query by selecting the most appropriate value
Note: Drag and Drop the correct values from the relevant (color) category

EMPLOYEE (employee_ID , NAME , EMAIL , PHONE_NUMBER , HIRE_DATE , SALARY , DESIGNATION , DEPARTMENT_ID)

Write a query to display the employee IDs of the employees who get a salary greater than the employee with ID 'emp3456'

(

);

SELECT

FROM

WHERE

GROUP BY

HAVING

EMPLOYEE

employee_ID

name

phone_number

hire_date

salary

designation

department_id

=

IN

NOT IN

>

<

number

'emp345'

employee_ID

ID'

DELL



Online Exams

Sri Lanka Institute of Information Technology

28

Answered
out of
question

Employee(empID, firstName, lastName, joinDate, basicSalary, departID) PK: empID

Consider the above Employee table and find the **correct SQL Function** that is necessary when writing the answers for the following three SQL queries.

A. Print the highest basic salary of an employee in the Employee table: Choose... ▾

B. Print the length of "firstName" for each employee from Employee table: Choose... ▾

C. Print the "firstName" from Employee table after replacing each 'a' with 'A': Choose... ▾

Next page

31

Finis

Time



Which of the following are true about a Weak entity?

Select one or more:

- a. It depends on another strong entity
- b. It is also a strong entity with a Partial Key
- c. It can participate in any kind of relationship as 1:1, 1:M, M:N
- d. Each entity in the Weak entity-set must participate in at least, and at most one relationship instance with the other side.
- e. It has a Partial Key which is marked using a dashed underline

[Next page](#)

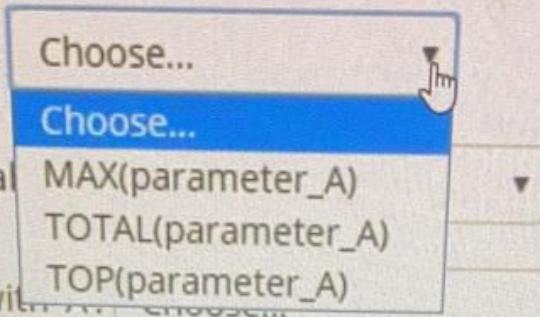
Salary, departID) PK: empID

Select SQL Function that is necessary when writing the answers for the

The Employee table:

Feedback from Employee

replacing each 'a' with





Employee(empID, firstName, lastName, joinDate, basicSalary, departID) PK: empID

Consider the above Employee table and find the **correct SQL Function** that is necessary when writing the answers for the following three SQL queries.

A. Print the highest basic salary of an employee in the Employee table: MAX(parameter_A)

B. Print the length of "firstName" for each employee from Employee table: Choose...

C. Print the "firstName" from Employee table after replacing each 'a' with 'A' Choose...

Choose...
Choose...
LENGTH(parameter_A)
CHAR(parameter_A)
TOTAL(parameter_A)

**Question 26**

Not yet answered

Marked out of
8.00

Flag question

You are given the following details as requirements for the database for a leading University.

In the University, there are several departments. Department have a name, phone extension, specific mailing address and Students that belong to the department. Students can belong to exactly one Department and a Department can have more than one or no Students. Students and faculty have names and unique identification numbers, with address, age, gender and other information. Student studies different Courses offered by University. Faculty teaches these Courses. In each semester one student can take more than one course and Faculty can teach more than one course. Each course can be taught by many faculty members or no one.

Construct the ER diagram for the university database, and select the correct answer for the below questions from the following drop-down menu.

1. What are the correct entities for the ER diagram?

- a. Department, Student, Course, Faculty
- b. Department, Student, Course
- c. University, student, course, Faculty
- d. University, Department, Faculty, Student
- e. Student, Course, Faculty

2. What is an incorrect Relationship for the ER diagram?

- a. Student <belongs to> Department
- b. Student <studies> Course
- c. Faculty <Teaches> Course
- d. Department <managed by> Faculty
- e. None of the above

3. Which of the following statements is false?

Quiz navi

INSTRUCTIONS



EXAM QUESTIONS

1	2	3
8	9	10
15	16	17
22	23	24
29	30	31

COMMENTS



Finish attempt...

Time left 0:43:20

15	16	17	18
22	23	24	25
29	30		

COMMENTS

31

Finish attempt ...

Time left 0:43:10

- a. Department, Student, Course, Faculty
- b. Department, Student, Course
- c. University, student, course, Faculty
- d. University, Department, Faculty, Student
- e. Student, Course, Faculty

2. What is an incorrect Relationship for the ER diagram?

- a. Student <belongs to> Department
- b. Student <studies> Course
- c. Faculty <Teaches> Course
- d. Department <managed by> Faculty
- e. None of the above

3. Which of the following statements is false?

- a. Department and Student entities participate in a 1:M relationship
- b. Faculty and Course entities participate in a M:N relationship
- c. All relationships of the ER diagram are Binary Relationships
- d. Department and Course participates in a 1:M relationship
- e. The Degree of all relationships are 2

1. Which of the following are correct entities for the ER diagram?

Choose... ▾

2. Which of the following is an incorrect Relationship for the ER diagram?

Consider the above Employee table and find the **correct SQL Function** that is necessary when writing the answers for the following three SQL queries.

A. Print the highest basic salary of an employee in the Employee table: MAX(parameter_A) ▾

B. Print the length of "firstName" for each employee from Employee table: LENGTH(parameter_A) ▾

C. Print the "firstName" from Employee table after replacing each 'a' with 'A':

Choose...

Choose...

UPDATE(parameter_A, parameter_B, parameter_C)

CHANGE(parameter_A, parameter_B)

REPLACE(parameter_A, parameter_B, parameter_C)

Next page



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Answered

out of

Question

The table below shows details of "Save for Future" bank.

Account_Info

Account_No	Account_type	Balance	Interest_rate
A001	Fixed Deposit	1200.000	12%
A002	Savings	25,800	6%
A003	Fixed Deposit	50,000	12%
A001	Fixed Deposit	1200.000	12%

Primary key is (AccountNo)

Following are the Functional Dependencies that exist on the given relation.

Account_No \rightarrow Account_Type, Balance, Interest_rate

Account-type \rightarrow Interest_rate

Answer the following question using the table and dependencies given above.

1. Which normal form is the relation in?

- a. First Normal Form
- b. Second Normal Form
- c. Third Normal Form
- d. Unnormalized Form
- e. BCNF

2. What are the 2nd Normal Form relations for Account_Info table.

- a. R1(Account_No, Account_Type, Balance)
R2 (Account_Type, Interest_rate)
- b. R1 (Account_No, Balance, Interest_rate)
R2 (Account_Type, Interest_rate)
- c. R1(Account_No, Balance)
R2 (Account_Type, Interest_rate)
R3 (Account_No, Account_Type)
- d. R1(Account_Type, Interest_rate)
R2 (Account_No, Account_Type, Balance, Interest_rate)
- e. R1 (Account_No, Account_Type, Balance, Interest_rate)

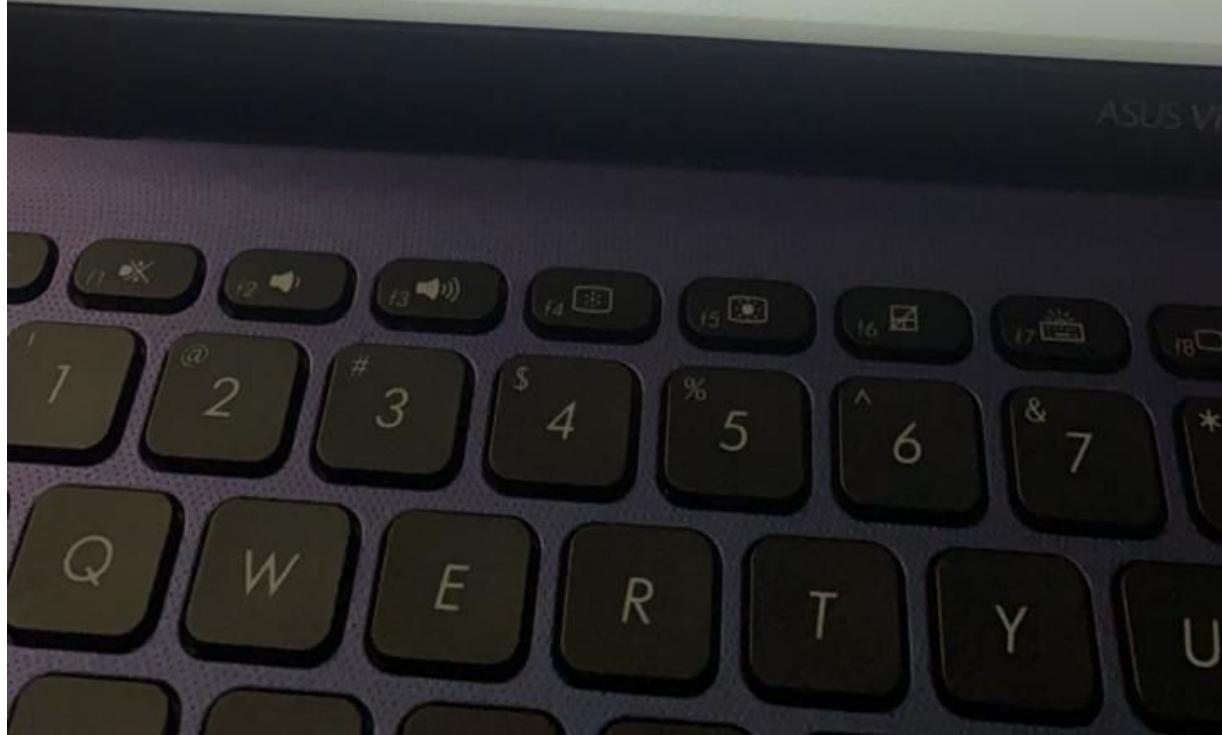
3. What are the 3rd Normal Form relations for Account_Info table.

3. What are the 3rd Normal Form relations for Account_Info table.

- a. R1(Account_No, Account_Type, Balance)
R2 (Account_Type, Interest_rate)
- b. R1 (Account_No, Balance, Interest_rate)
R2 (Account_Type, Interest_rate)
- c. R1(Account_No, Balance)
R2 (Account_Type, Interest_rate)
R3 (Account_No, Account_Type)
- d. R1(Account_Type, Interest_rate)
R2 (Account_No, Account_Type, Balance, Interest_rate)
- e. R1 (Account_No, Account_Type, Balance, Interest_rate)

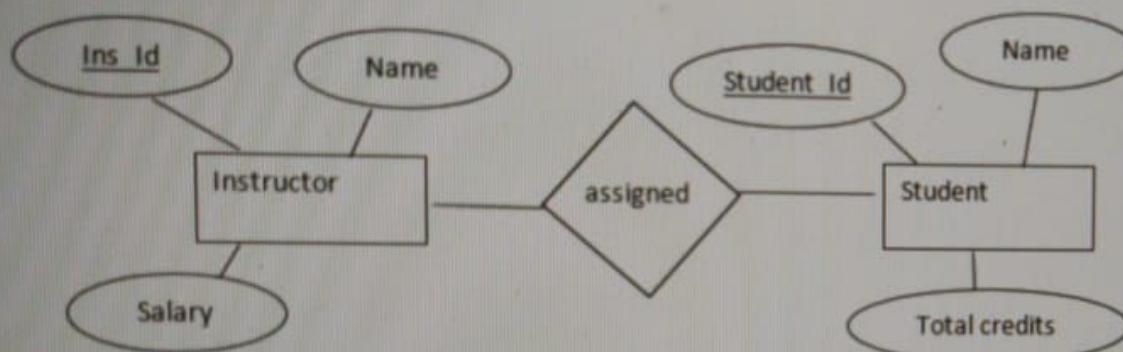
Select the correct answer name for the above questions from the following.

- 1. Which normal form is the relation in?
- 2. What are the 2nd Normal Form relations for Account_Info table.
- 3. What are the 3rd Normal Form relations for Account_Info table.



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

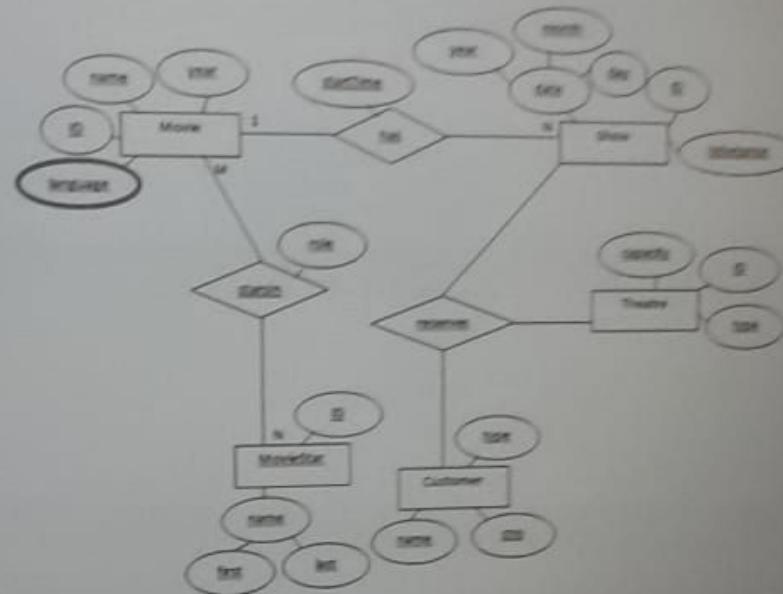
Question 23

Not yet answered

Marked out of
5.00

Flag question

How many tables refer the *ID* primary key in the 'Movie' relation after map the following ER model into the relational model?



Select one:

- a. 3
- b. 5
- c. 2
- d. 1
- e. 4

Question 27

Not yet answered

Marked out of
4.00

Flag question

Consider the following schema and complete the answer for the following given SQL query by selecting the most appropriate value.

Note: Drag and Drop the correct values from the relevant (color) category

EMPLOYEE (employee_ID , NAME , EMAIL , PHONE_NUMBER , HIRE_DATE , SALARY , DESIGNATION , DEPARTMENT_ID)

Write a query to display the employee IDs of the employees who get a salary greater than the employee with ID 'emp3456'

```
    [ ] [ ]  
    [ ] [ ]  
    [ ] [ ] [ ]  
    ( [ ] [ ]  
    [ ] [ ]  
    [ ] [ ] [ ]  
);
```

SELECT FROM WHERE GROUP BY HAVING

EMPLOYEE employee_ID name phone_number hire_date salary

designation department_id

= IN NOT IN > <

number 'emp345' employee_ID 'ID'

Quiz

INSTRU

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EXAM QU

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16

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COMMENTS

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Finish attemp

Time left 0:34

Not yet answered

Marked out of
4.00

Flag question

Select the correct values from the following schema and complete the answer for the following given SQL query by selecting the most appropriate values.

Note: Drag and Drop the correct values from the relevant (color) category

EMPLOYEE (employee_ID , NAME , EMAIL , PHONE_NUMBER , HIRE_DATE , SALARY , DESIGNATION , DEPARTMENT)

Write a query to display the employee IDs of the employees who get a salary greater than the employee with ID 'emp345'.

SELECT employee_ID

FROM EMPLOYEE

WHERE salary >

(SELECT salary

FROM EMPLOYEE

WHERE employee_ID = 'emp345'

);

SELECT FROM WHERE GROUP BY HAVING

EMPLOYEE employee_ID name phone_number hire_date salary designation

department_id

= IN NOT IN > <

number

employee_ID 'ID'

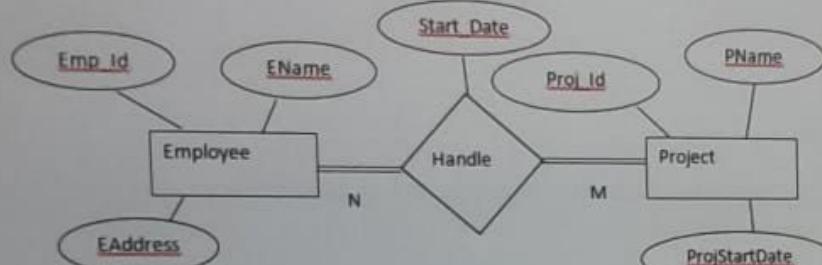


Question 26

Not yet answered

Marked out of 1.00

Flag question



Which statement/s are true related to the given ER diagram?

Select one or more:

- a. We can find the total number of projects handled by each employee, using a database created with this design
- b. An employee may or may not handle a project. But a project must be handled by at least one employee
- c. Each and every employee must handle a project
- d. Descriptive attribute 'Start_Date' gives the date an employee started handling a particular project
- e. A project must be handled by one or more employees

≡ Quiz navigation

INSTRUCTIONS

1

EXAM QUESTIONS

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25	26	27	28	29	30		

COMMENTS

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Final attempt

Time left: 0:30:10

DELL

What is the correct SQL query to get the last eno (106) from the employee table given below?

Employee

eno	NIC	ename	address	dnumber
100	901250087V	Smith,John B	731 Fondren, H... 5	
101	895290452V	Wrong, Frankli...	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 one:

- a.
select top 1 eno from Employee order by eno desc
- b.
select top 1 eno from Employee order by eno asc
- c. select eno,MAX(eno) from Employee group by eno
- d. select eno from Employee order by max(eno)
- e.
select eno,MAX(eno) from Employee group by eno order by eno

Sri Lanka Institute of Information Technology

Select the correct answer for the missing part of the following statement.

When execute the following insert statement Choose... constraint will be violated.

INSERT INTO Employee VALUES ('EM2132', 'W')

- Choose...
- Choose...
- Domain
- Referential Integrity
- Check
- Entity Integrity
- Key

Employee

empNo	name	salary (US\$)	dno
EM1201	Sandra	400	1
EM2390	Alex	315	1
EM2213	John	560	2

Department

dNo	name
1	HR
2	Finance



Online Exams

Sri Lanka Institute of Information Technology

Question 27

yet answered
Marked out of
1

Flag question

Database systems comprise of complex data structures. Thus, to make the system efficient for retrieval of data and reduce the complexity of the users, developers use the method of Data Abstraction.

The Choose... is the highest level in the data abstraction which shows/states only a part of the database.



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≡ Quiz navigation

INSTRUCTIONS



EXAM QUESTIONS

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6	7	8	9	10
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16	17	18	19	20
21	22	23	24	25

Answers

Feedback

Print page

Download page



Question 27

Not yet answered

Marked out of
2.00

Flag question

Database systems comprise of complex data structures. Thus, to make the system efficient for retrieval of data and reduce the users, developers use the method of Data Abstraction.

The is the highest level in the data abstraction which shows/states only a part of the database.

-
-
- Internal Level
- Conceptual Level
- External Level
- Logical Level
- User Level

on 26

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out of
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Quiz naviga

INSTRUCTIONS

1

EXAM QUESTIONS

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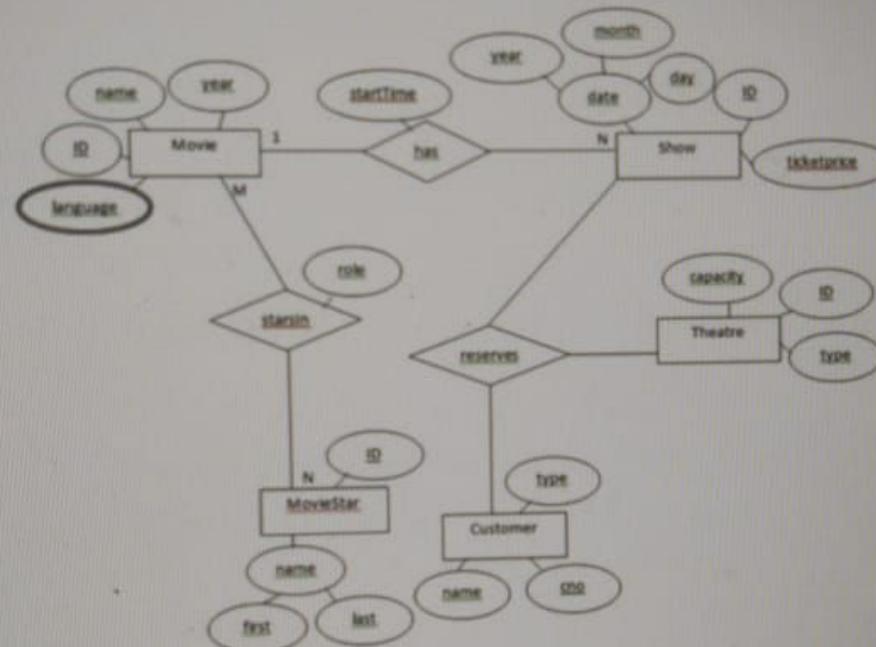
COMMENTS

31

Finish attempt ...

Time left 0:25:15

How many tables refer the *ID* primary key in the 'Movie' relation after map the following ER model into the relational model?



Select one:

- a. 5
- b. 1
- c. 4
- d. 2
- e. 3

net location and might be unsafe. Click for more details.

Enable Editing

Information Systems

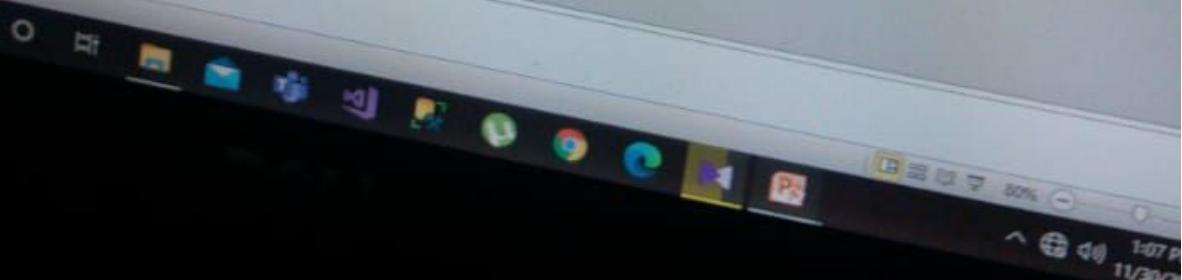
An Information System collects, processes, stores, analyzes, and disseminates information for a specific purpose

Information System is an arrangement of people, data, processes, information presentation, and IT that interact to support and improve day operations in an organization (As well as support the problem solving and decision making needs of various people)

Information System is not necessarily be computerized

OF COMPUTING

IT1090 | ISDM | Lecture 1 | Mrs. Muditha Thissera



Select the correct answer for the missing part of the following statement.

When execute the following insert statement Entity Integrity constraint will be violated.

INSERT INTO Employee VALUES ('EM2132', 'William', 500, 3);

Employee

empNo	name	salary (US\$)	dno
EM1201	Sandra	400	1
EM2390	Alex	315	1
EM2213	John	560	2

Department

dNo	name
1	HR
2	Finance

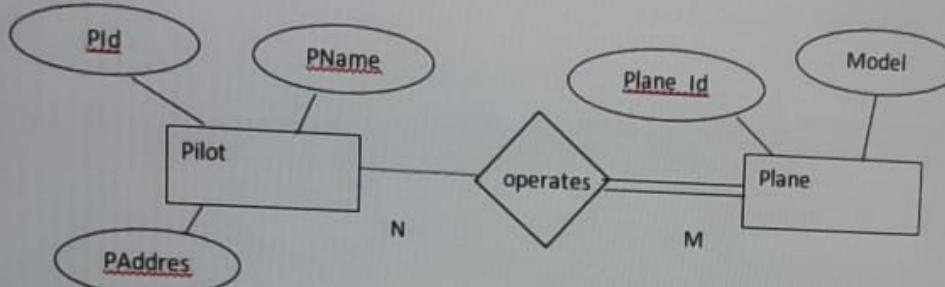
Question 28

Not yet answered

Marked out of
3.00

Flag question

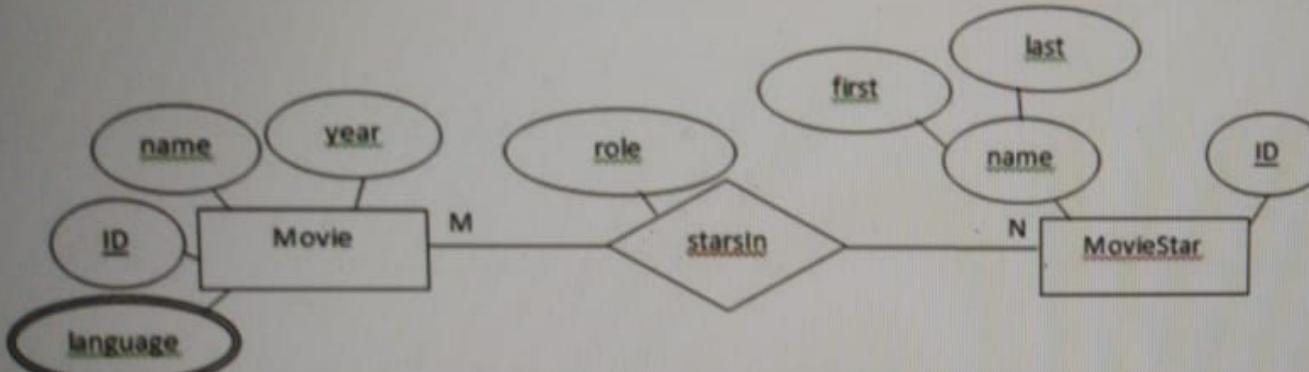
Which of the following statement(s) is/are true about the given ER diagram?



Select one or more:

- a. There can be some pilots without operating any plane
- b. A plane is operated by only one pilot
- c. Each pilot operates only one plane
- d. A plane is operated by one or more pilots
- e. A pilot operates zero or more planes

Which relation has the descriptive attribute 'role' after map the following ER model into the relational model?



Select one:

- a. Movie
- b. None of the given answers
- c. StarsIn
- d. Movie_language
- e. MovieStar

Select the correct answer for the missing part of the following statement.

When execute the following insert statement Entity Integrity constraint will be violated.

INSERT INTO Employee VALUES ('EM2132', 'William', 500, 3);

Employee

empNo	name	salary (US\$)	dno
EM1201	Sandra	400	1
EM2390	Alex	315	1
EM2213	John	560	2

Department

dNo	name
1	HR
2	Finance

r for the missing part of the following statement.

using insert statement Entity Integrity constraint will be violated.

VALUES ('EM2132', 'Wi Choose...

Domain

Referential Integrity

Check

Entity Integrity

Key

salary (US\$)	dno
400	1
315	1
560	2

You are given the following details as requirements for the database for a leading University.

In the University, there are several departments. Department have a name, phone extension, specific mailing address and Students that belong to the department. Students can belong to exactly one Department and a Department can have more than one or no Students. Students and faculty have names and unique identification numbers, with address, age, gender and other information. Student studies different Courses offered by University. Faculty teaches these Courses. In each semester one student can take more than one course and Faculty can teach more than one course. Each course can be taught by many faculty members or no one.

Construct the ER diagram for the university database, and select the correct answer for the below questions from the following drop-down menu.

1. What are the correct entities for the ER diagram?

- a. Department, Student, Course, Faculty
- b. Department, Student, Course
- c. University, student, course, Faculty
- d. University, Department, Faculty, Student
- e. Student, Course, Faculty

2. What is an incorrect Relationship for the ER diagram?

- a. Student <belongs to> Department
- b. Student <studies> Course
- c. Faculty <Teaches> Course

1. What are the correct entities for the ER diagram?

- a. Department, Student, Course, Faculty
- b. Department, Student, Course
- c. University, student, course, Faculty
- d. University, Department, Faculty, Student
- e. Student, Course, Faculty

2. What is an incorrect Relationship for the ER diagram?

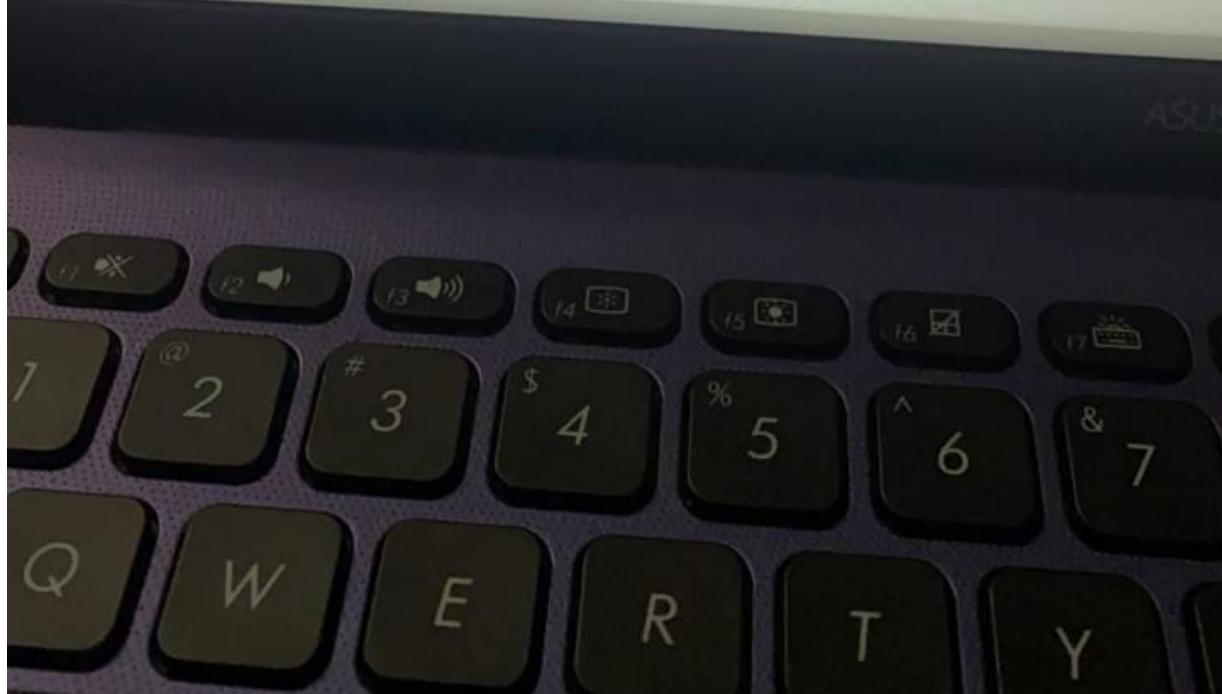
- a. Student <belongs to> Department
- b. Student <studies> Course
- c. Faculty <Teaches> Course
- d. Department <managed by> Faculty
- e. None of the above

3. Which of the following statements is false?

- a. Department and Student entities participate in a 1:M relationship
- b. Faculty and Course entities participate in a M:N relationship
- c. All relationships of the ER diagram are Binary Relationships
- d. Department and Course participates in a 1:M relationship
- e. The Degree of all relationships are 2

1. Which of the following are correct entities for the ER diagram?

Choose...



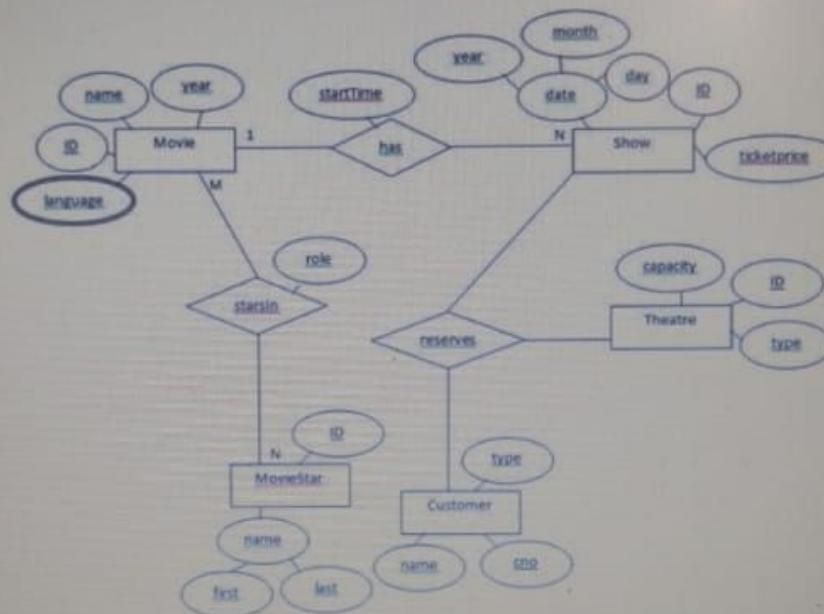
Question 21

Not yet answered

Marked out of
5.00

Flag question

How many tables refer the *ID* primary key in the 'Movie' relation after map the following ER model into the relational model?



Select one:

- a. 3
- b. 5
- c. 1
- d. 4

Quiz n

INSTRUCTION

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EXAM QUEST

1

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26

COMMENTS

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Finish attempt

Time left 0:21

Consider the following schema and complete the answer for the following given SQL query by selecting the most appropriate value.

Note: Drag and Drop the correct values from the relevant (color) category

EMPLOYEE (employee_ID , NAME , EMAIL , PHONE_NUMBER , HIRE_DATE , SALARY , DESIGNATION , DEPARTMENT_ID)

Write a query to display the employee IDs of the employees who get a salary greater than the employee with ID 'emp3456'

;

SELECT FROM WHERE GROUP BY HAVING

EMPLOYEE employee_ID name phone_number hire_date salary designation

department_id

= IN NOT IN > <

number 'emp345' employee_ID 'ID'



Online Exams

Sri Lanka Institute of Information Technology

0
swered
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question

- b) How many relations you can get when normalize the relation Patient_Info in to 3rd normal form?

Patient_Info (patient, consultant, hospital, address, date, time)

patient, consultant → hospital, address, date, time

hospital → address

1
2
3
4
5



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≡ Quiz r

INSTRUCTI

I

EXAM QUES

1 2

8 9

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29 30

COMMENTS

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Sri Lanka Telecom

Online Exams

Sri Lanka Institute of Information Technology

Select the correct answer for the missing part of the following statement.

When executing DELETE command to remove a record from a following given table it is possible for **Choose...** constraint to get violated.

Choose...

- Referential Integrity
- Entity Integrity
- Key
- Domain
- All given

		salary (US\$)	dno
EM1201	Sandra	400	1
EM2390	Alex	315	1
EM2213	John	560	2

Department

dNo	name
1	HR
2	Finance



Online Exams

Sri Lanka Institute of Information Technology

A third Normal Form relation

Select one:

- a. may be in second normal form.
- b. may contain multivalued attributes.
- c. not be in first normal form
- d. must be in BCNF
- e. not contain any transitive dependencies for non-prime attributes,

The screenshot shows a window titled "Online Exams" from "Sri Lanka Institute of Information Technology". The window has a dark blue header bar with the title and a logo on the left. Below the header is a question card with a light blue background. The question text is: "A recursive relationship is a relationship between an entity and _____. Select one or more:" followed by five options: a. Sub entity, b. Itself, c. Another distinct entity, d. An instance entity, and e. A relationship. The option "b. Itself" is selected, indicated by a checked checkbox.

A recursive relationship is a relationship between an entity and _____

Select one or more:

- a. Sub entity
- b. Itself
- c. Another distinct entity
- d. An instance entity
- e. A relationship

Final Examination - Session 2 (30th November)

This quiz has been configured so that students may only attempt it using the Lockdown Browser.

Attempts allowed: 1

This quiz opened at Monday, 30 November 2020, 11:30:00.

This quiz will close on Monday, 30 November 2020, 14:30:00.

Time limit: 2 hours

Summary of your previous attempts

State

Review

In progress

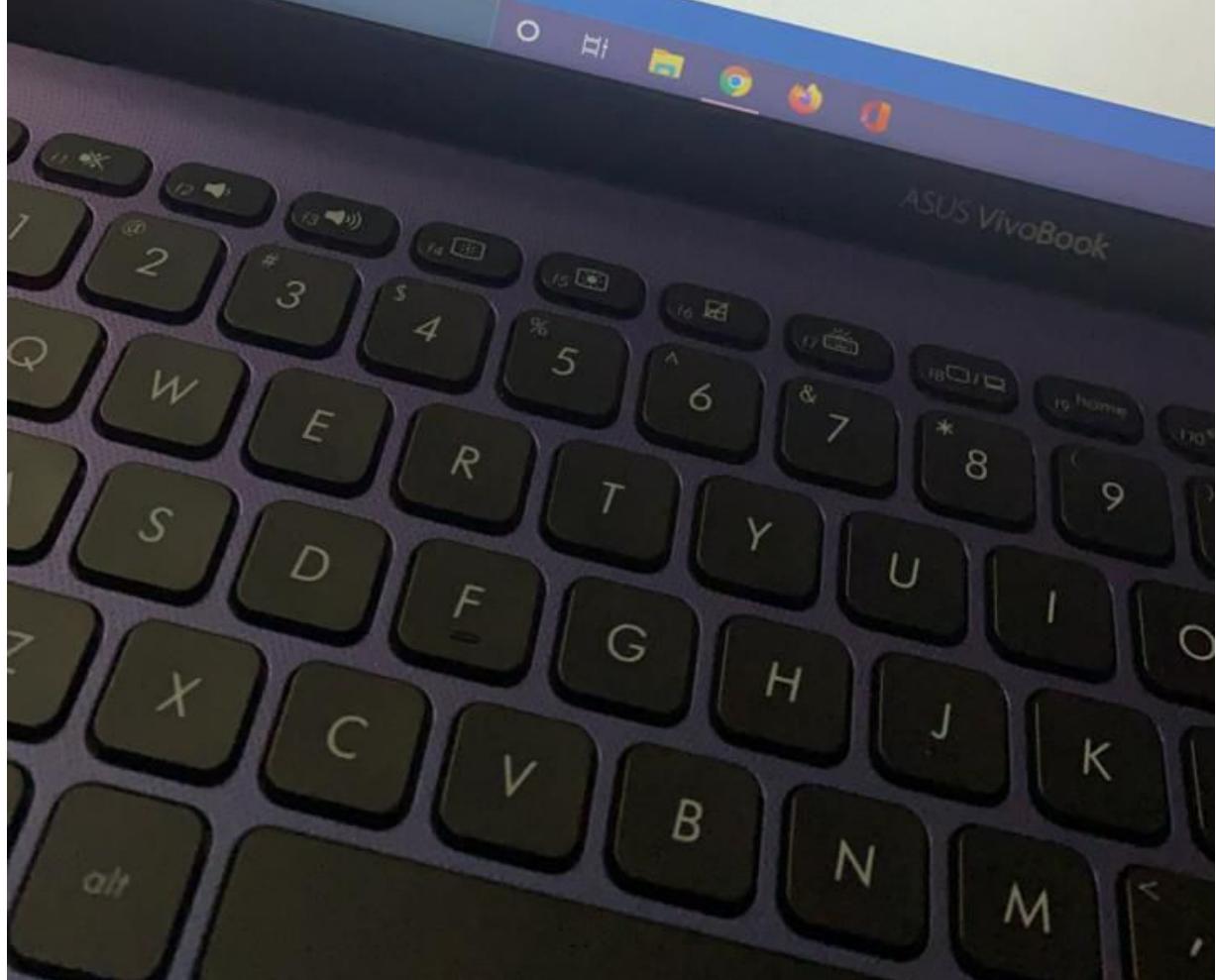
Respondus LockDown Browser is required for this exam.
Download LockDown Browser | Check your LockDown Browser Setup

Launch LockDown Browser

Back to the course

Type here to search

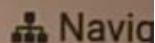
ASUS VivoBook





Home My courses Information Systems & Data Modeling - IT1090 Final Exam Semester II, 2020 (30th November) Sess... Final Examination - Session 2 (30th November)

Final Examination - Session 2 (30th November)



This quiz has been configured so that students may only attempt it using the Respondus LockDown Browser.

Attempts allowed: 1

This quiz opened at Monday, 30 November 2020, 11:30 AM

This quiz will close on Monday, 30 November 2020, 1:45 PM.

Time limit: 2 hours

Summary of your previous attempts

State	Review
Finished	Submitted Monday, 30 November 2020, 1:21 PM

No more attempts are allowed

[Back to the course](#)

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Information Systems

IT1090

Participation

Communication

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Final Examination - Session 2 (30th November)

This quiz has been configured so that students may only attempt it using the Respondus LockDown Browser.

Attempts allowed: 1

This quiz opened at Monday, 30 November 2020, 11:30 AM

This quiz will close on Monday, 30 November 2020, 1:45 PM.

Time limit: 2 hours

Summary of your previous attempts



Review

State

Finished

Submitted Monday, 30 November 2020, 1:24 PM

No more attempts are allowed

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