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**Enrolment No:** 



## UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

**End Semester Examination, July 2020** 

**Course: Database Management Systems** 

**Course Code: CSEG 1005** 

Programme: B.Tech. CSE+LLB/IPR

Instructions: Attempt all questions.

Backtracking is prohibited.

Semester: II Time: 2 hours Max. Marks: 100



Mitali Chugh 152

My Institution

Courses

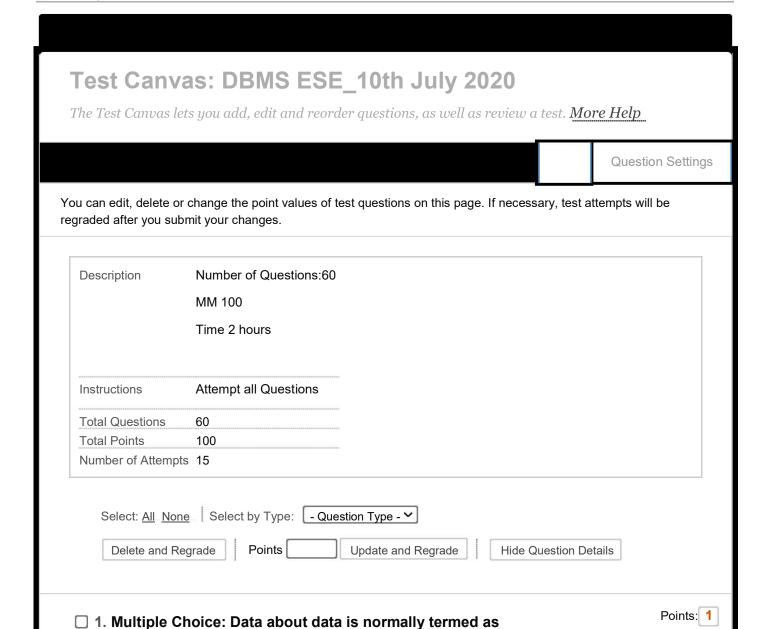
Community

Edit Mode is: ON



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Tests, Surveys and Pools Tests Test Canvas: DBMS ESE\_10th July 2020



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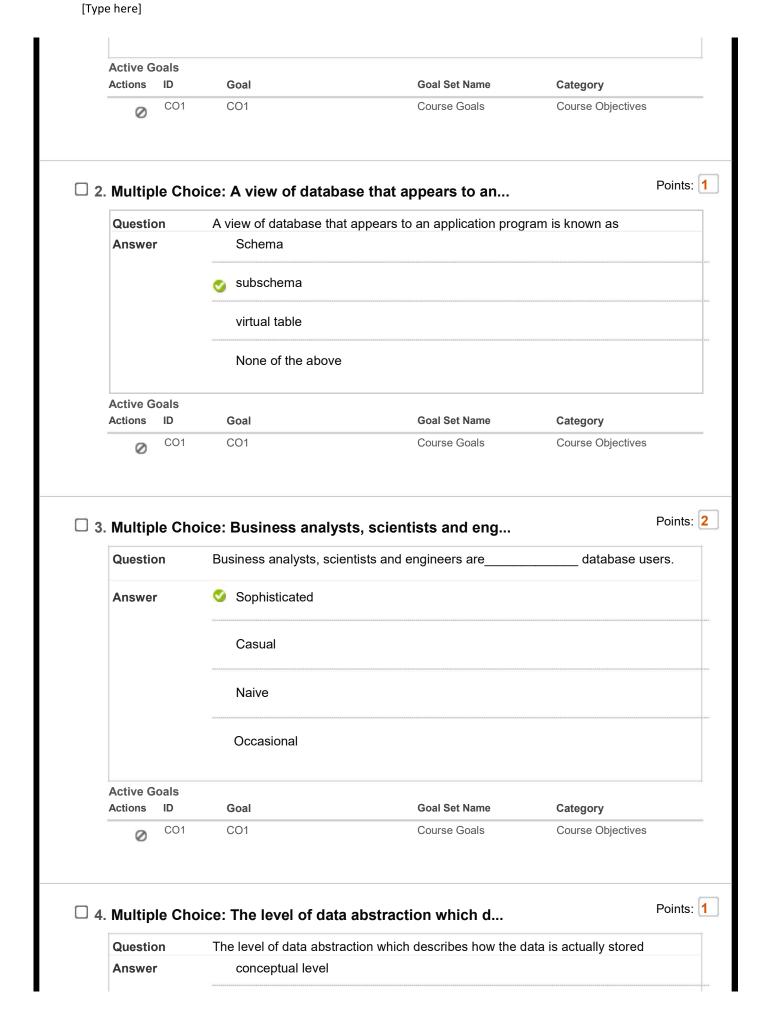
Question Data about data is normally termed as Answer

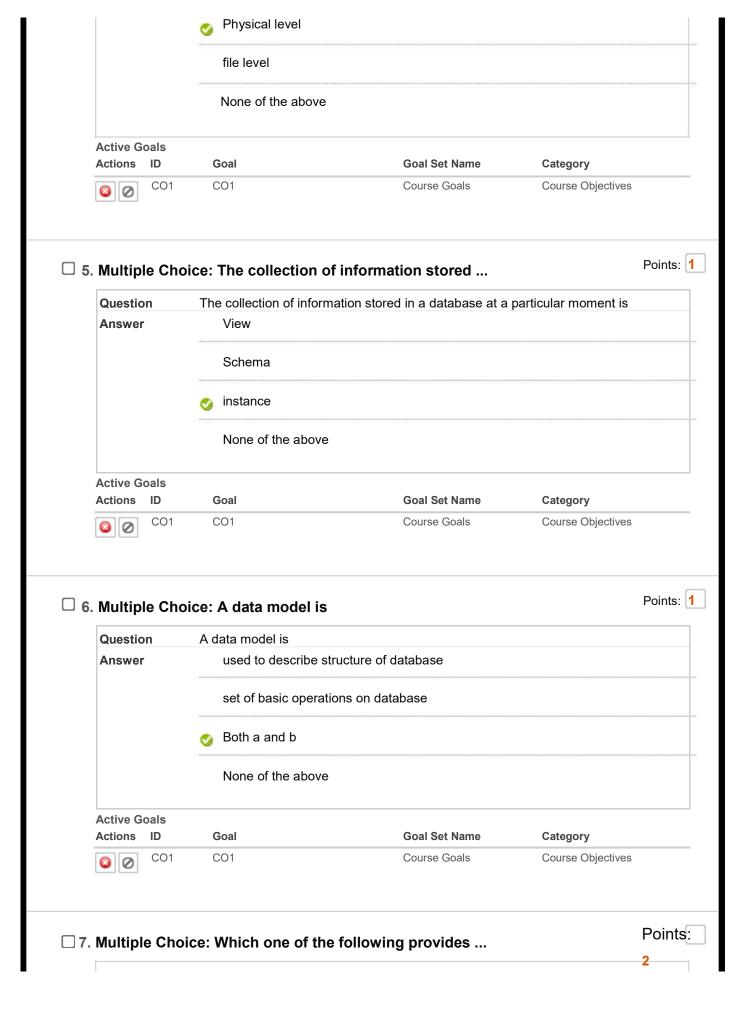
Directory

Data bank

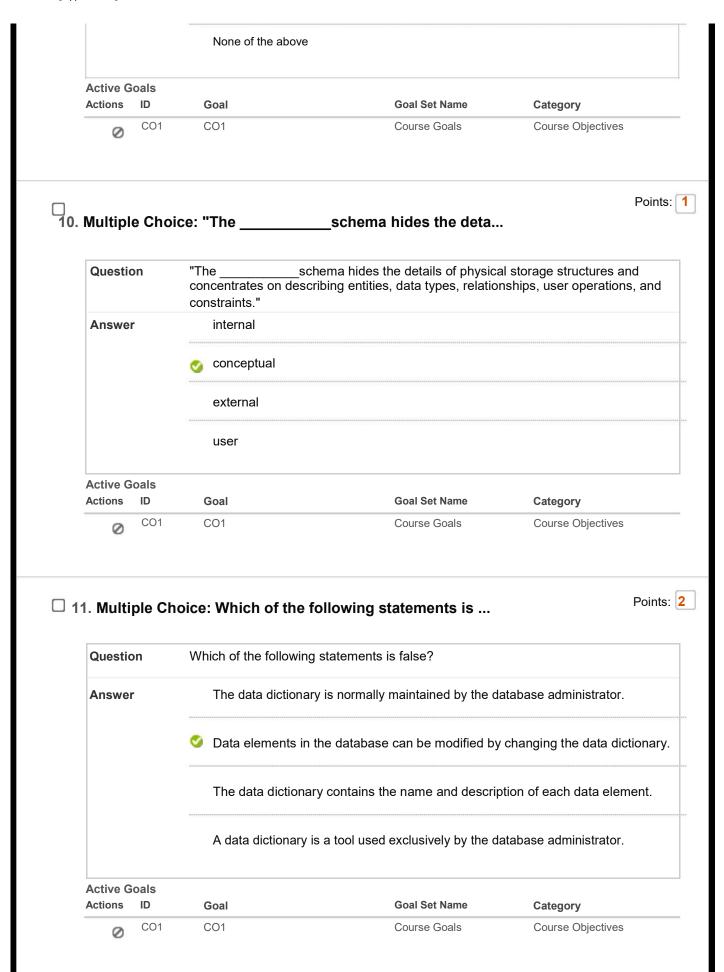
Meta data

None of the above



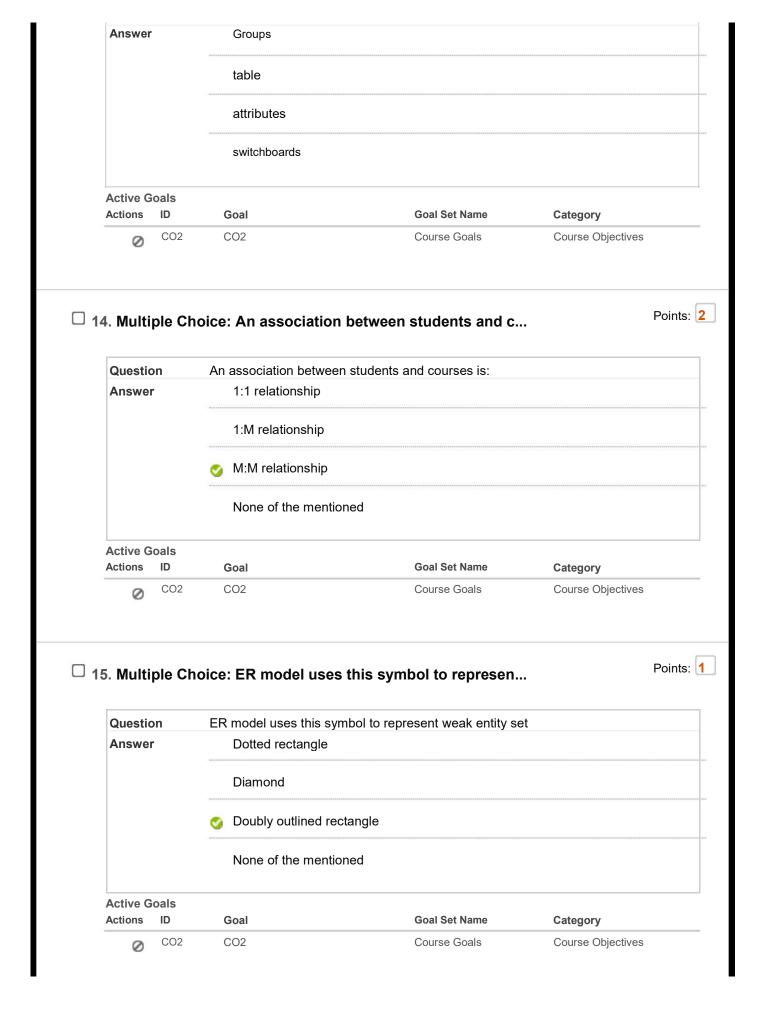


		e following provides the ability to question from the following provides the ability to question from the following provides the ability to question for the following provides the following provides the ability to question for the following provides the ability to question for the following provides the foll	
Answer	Data Manipula	ation Language (DML)	
	Data Definition	n Language	
	Query <b>⊘</b>		
	Relational Sch	nema	
Active Goa	als D Goal	Goal Set Name	Category
C	CO1 CO1	Course Goals	Course Objectives
Multiple	Choice: The basic da	ata type char(n) is a	Po
Question		pe char(n) is a length charac	ator atring and warehar(n)
Chiestion	THE Dasie data typ		eter string and varenaring
	length char	racter	
	length char	racter.	
Answer	length char	racter.	
	Fixed, equal	e	
	Fixed, equal Equal, variable	e e	
	Fixed, equal  Equal, variable  Fixed, Variable  Variable, equa	e e	
Answer	Fixed, equal  Equal, variable  Fixed, Variable  Variable, equa	e e	Category
Answer  Active Goa	Fixed, equal  Equal, variable  Fixed, Variable  Variable, equa	e e	Category Course Objectives
Answer  Active Goa	Fixed, equal  Equal, variable  Fixed, Variable  Variable, equal	e e al Goal Set Name	
Active Goa Actions II	Fixed, equal  Equal, variable  Fixed, Variable  Variable, equal  CO1  Goal  CO1	e e al Goal Set Name	Course Objectives
Active Goa Actions II	Fixed, equal  Equal, variable  Fixed, Variable  Variable, equal  CO1  CO1  Choice: Manager's sa	e  Goal Set Name Course Goals	Course Objectives
Active Goa Actions II	Fixed, equal  Equal, variable  Fixed, Variable  Variable, equal  October Manager's salary of	e  Goal Set Name Course Goals	Course Objectives
Active Goa Actions II	Fixed, equal  Equal, variable  Fixed, Variable  Variable, equal  October Manager's salary of	e  Goal Set Name Course Goals  Calary details are hidden f  details are hidden from the employe evel data hiding	Course Objectives



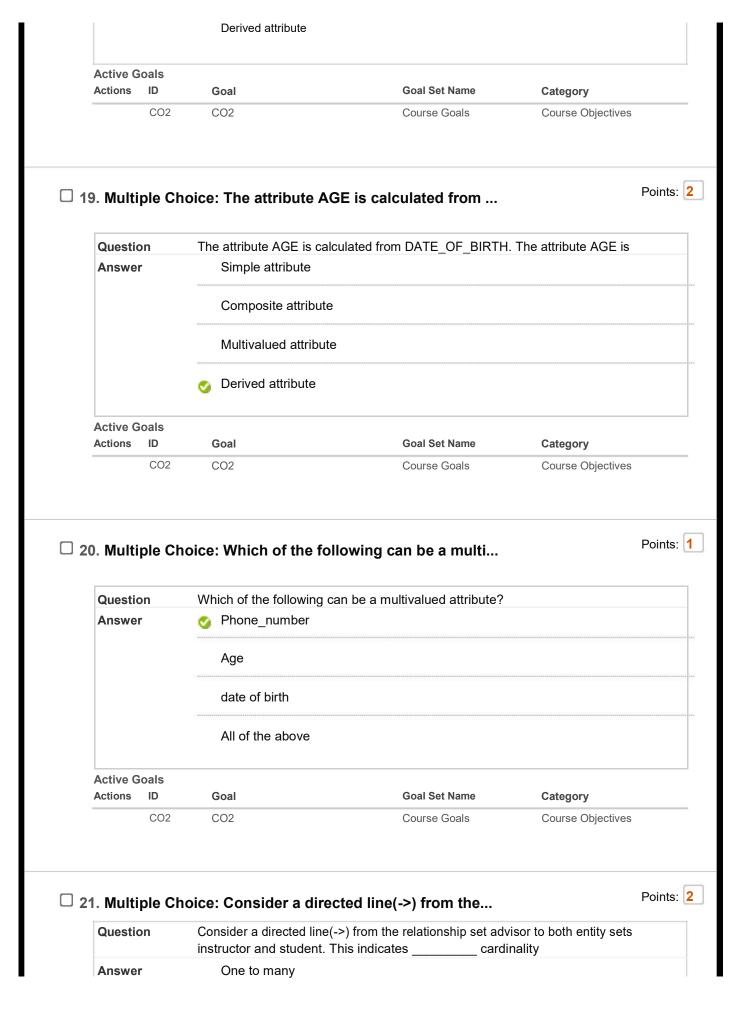
## 12. Multiple Choice: The figure shows

		RELATIONS		
		Relation_name	No_of_columns	
		STUDENT	4	
		COURSE	4	
		SECTION	5	
		GRADE_REPORT	3	
		PREREQUISITE	2	
		COLUMNS		
		Column_name	Data_type	Belongs_to_relation
		Name	Character (30)	STUDENT
		Student_number	Character (4)	STUDENT
		Class	Integer (1)	STUDENT
		Major	Major_type	STUDENT
		Course_name	Character (10)	COURSE
		Course_number	XXXXNNNN	COURSE
			••••	
	The figure shows		••••	
	The figure eneme	Prerequisite_number	XXXXNNNN	PREREQUISITE
	******	ntabase catalogue		
	Database and Da	atabase management systen	1	
ctive Goals	Goal	Goal Set Name	Category	
CO1	CO1	Course Goals	Course Object	ctives
Mu tiple Ch	oice: Which of the	following are the prope	r	Points: 1
uestion _	Which of the following o	re the properties of the entities?	)	



## 16. Multiple Choice: Which are the two ways in which entit...

	Which are the two wa	ays in which entities can participate in	a relationship?
nswier 🗌	Passive and Acti	ve	
	Total and Partial		
	Simple and comp	olex	
	All of the above		
ctive Goals	WARRAN		
tions ID	Goal	Goal Set Name	Category
CO2	CO2	Course Goals	Course Objectives
/luitiple Cho	ice: "An	is a set of entities of	Points
uestion		et of entities of the same type that sha	are the same properties, o
	attributes."		
nswer 🗌	Entity set		
	Attribute set		
	Relation set		
	Entity model		
ctive Goals	NAME OF TAXABLE PARTY.		
	Goal	Goal Set Name	Category
	Goal CO2	Goal Set Name Course Goals	Category Course Objectives
ctions ID	CO2		-
ctions ID	co2  ice: "The attribute "The attribute name of	Course Goals  e name could be structur  could be structured as an attribute could	Course Objectives Points:
CO2  Multiple Chouestion	cice: "The attribute "The attribute name of initial, and last name	Course Goals e name could be structur	Course Objectives Points:
co2 Multiple Cho	co2  ice: "The attribute "The attribute name of	Course Goals  e name could be structur  could be structured as an attribute could	Course Objectives Points:
Multiple Cho	cice: "The attribute "The attribute name of initial, and last name	course Goals  e name could be structur  could be structured as an attribute could.  This type of attribute is called"	Course Objectives Points:
Multiple Cho	co2  ice: "The attribute  "The attribute name of initial, and last name  Simple attribute	course Goals  e name could be structur  could be structured as an attribute could.  This type of attribute is called	Course Objectives Points:

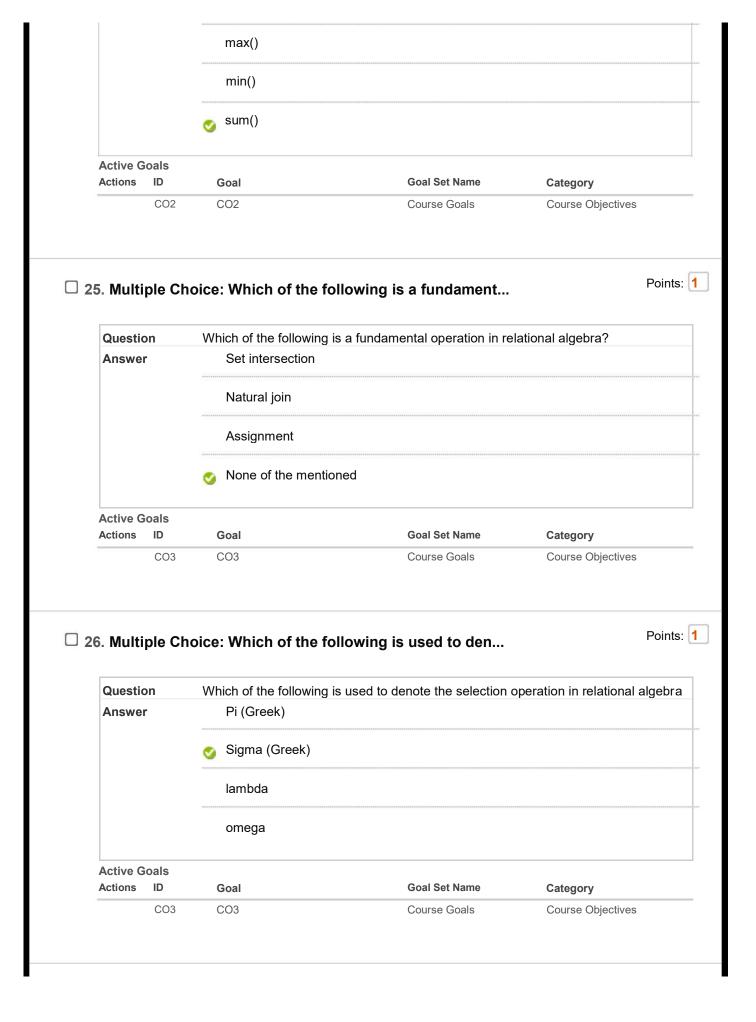


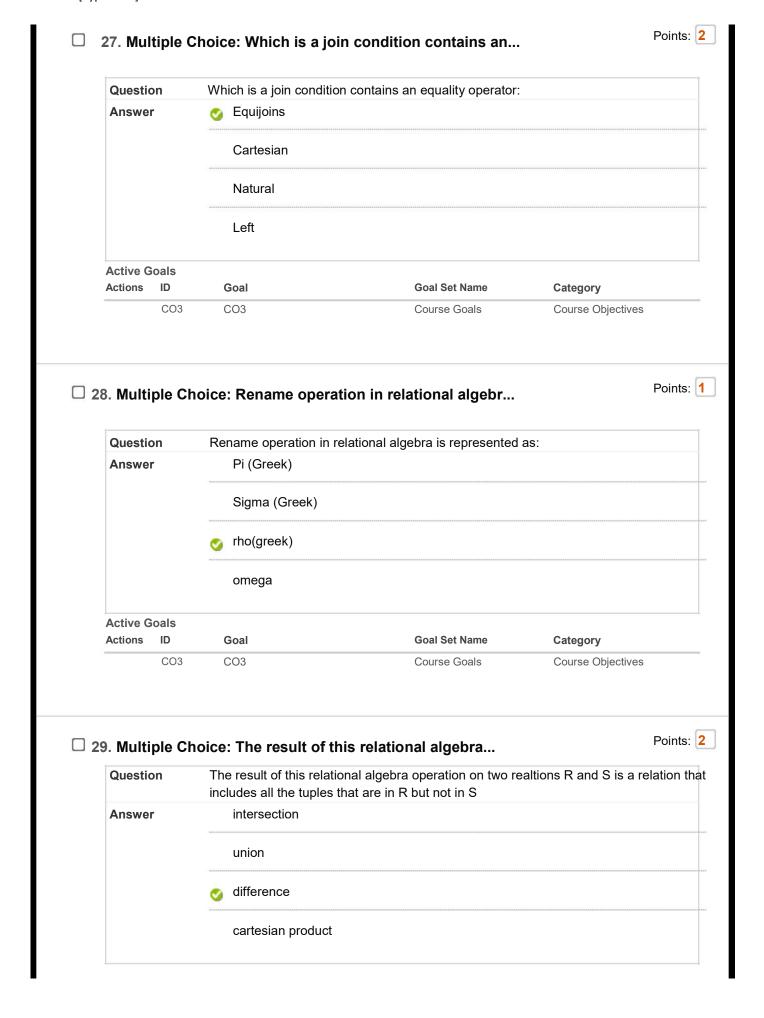
The function that is used to find the total is\_

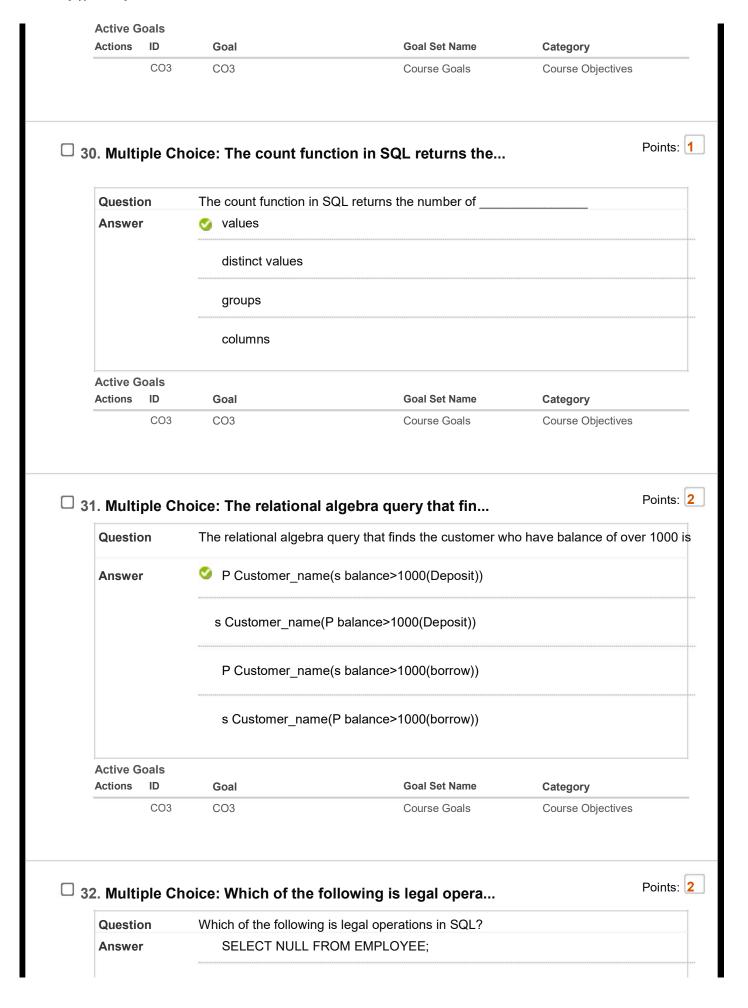
Count()

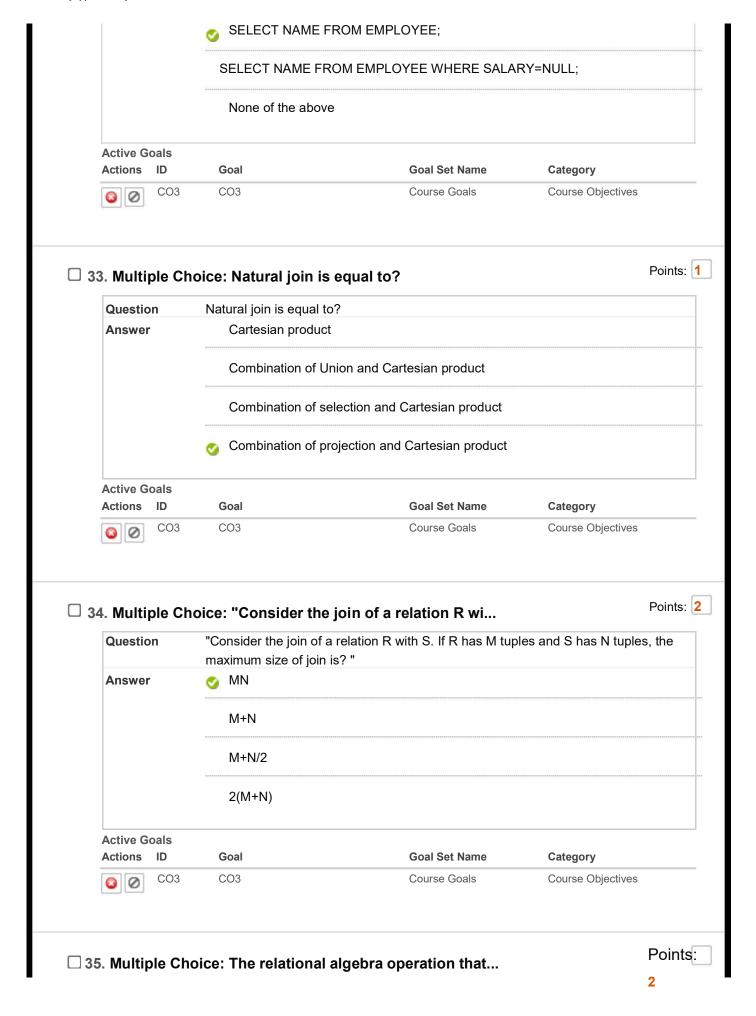
Question

**Answer** 

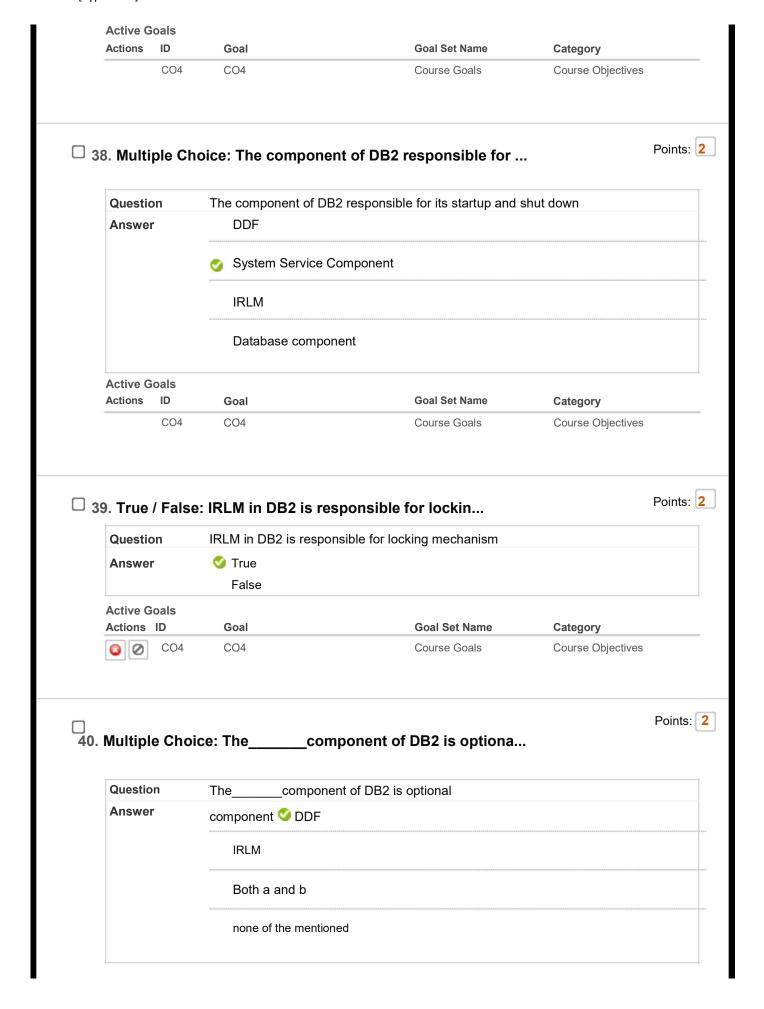


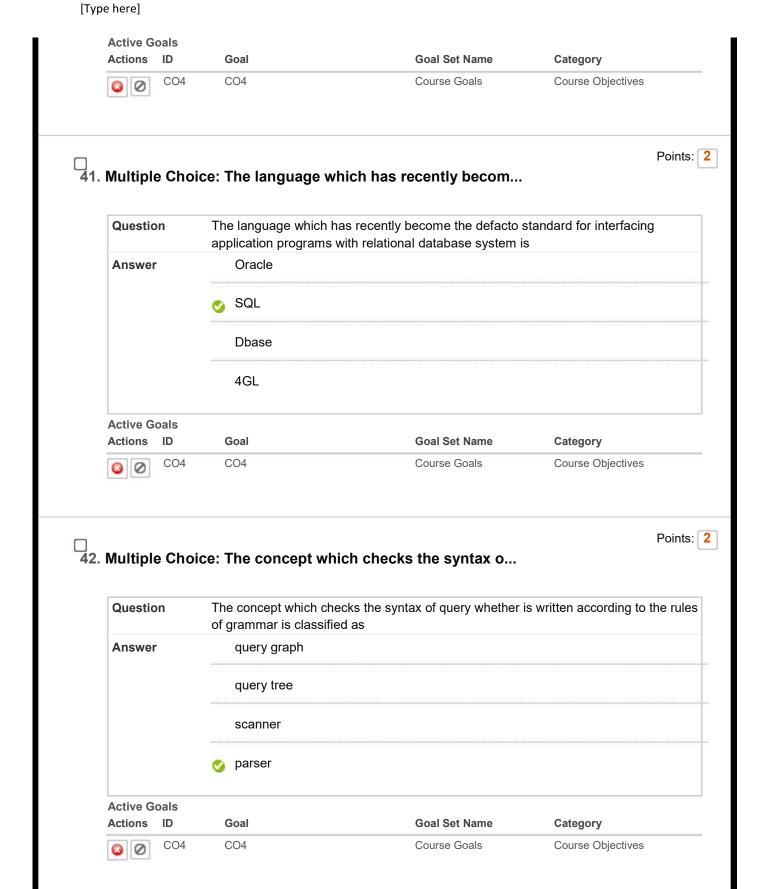






	Question	The relational algebra	a operation that displays the selected columns i	S
	Answei	Project		
		Select	<b>⊙</b>	
		Join		
		cartesian produc		
	Active Goals			
	Actions ID	Goal	Goal Set Name Category	
	CC	O3 CO3	Course Goals Course O	bjectives
36	Multiple C	hoice: DR2 is a dataha	se management system for	Points: 2
30.	wattipie C	iloice. DBZ is a databa	ise management system for	
	Question	DB2 is a database man	agement system for	
	Answer	Desktop systems		
	Allowel	Desktop systems		
		Microcomputers		
		Mainframes		
		Minicomputers		
	A ativa Calala			
	Active Goals Actions ID	Goal	Goal Set Name Category	
	CC		Course Goals Course O	
	37. Multipl	e Choice: There are	components in DB2	Points: 2
	Question Answer	There areco	omponents in DB2	
		2		
		3		
		4		
			<b>⊘</b>	
		I .		

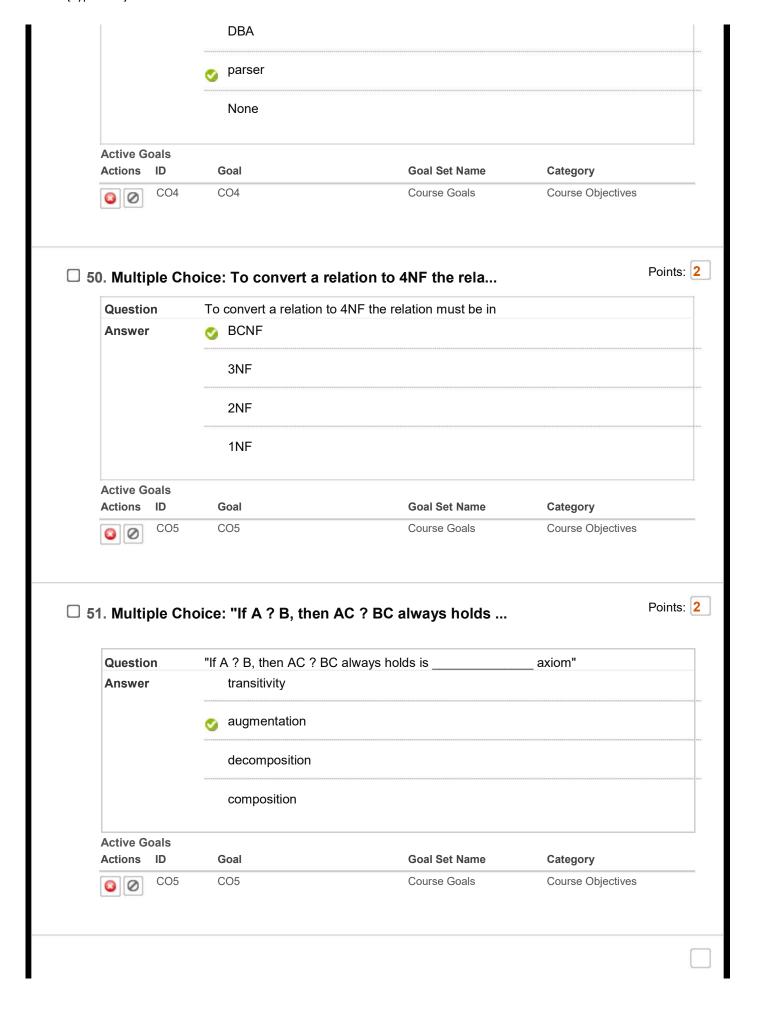




43. Multiple Choice: Query processing has

Answer		1		
		<b>⊘</b> 2		
		3		
		4		
Active G	oals ID	Goal	Goal Set Name	Category
	CO4	CO4	Course Goals	Course Objectives
4. Multi	ple Cho	oice: Which in the datal	base which is a sof	Po
Questic	on		ch is a software component for finding the best way for	
Answer	•	Query execution	for finding the best way for	its execution.
		query process		
		o query optimizer		
		Query transaction		
Active G	oals ID	Goal	Goal Set Name	Category
	CO4	CO4	Course Goals	Course Objectives
5. Multi Questic			lly related to the rewriter mo	Po dule is termed as
Answer	•	Semantic query optimi	zation	
		Global query optimizat	ion	
		Both		
		Both		
Active G	oals	None		
Active G	oals ID		Goal Set Name Course Goals	Category  Course Objectives

stion	Different query	optimization p	olans for a given query car	n have different costs.	
swer	True				
	False				
tive Goals	0.5-1		0.5-1.0-4.11	Cot	
cions ID CO4	Goal CO4	<b>©</b>	Goal Set Name  Course Goals	Category  Course Objectives	
004	004		Course Goals	Course Objectives	
lu tiple Ch	oice: 🛦	forms	s a basic unit that c		Points: 2
uestion			unit that can be translated	into relational algebra	
201107	expression and Query bloc	•			
nswer $\Box$	Query bloc	Κ.			
	Query pars	er			
	query optin	nizer			
	Both A nad	В			
tive Goals		***********************			
ione ID	Goal	***********************	Goal Set Name	Category	
ons ID			Cauraa Caala		
CO4	CO4		Course Goals	Course Objectives	
CO4		es within a		Course Objectives	Points: 1
co4 rue / False	e: Nested queri		query are ide		Points: 1
CO4 True / False	e: Nested queri				Points: 1
CO4 Frue / False	e: <b>Nested quer</b> i Nested queries		query are ide		Points: 1
CO4  Frue / False  uestion  nsver	e: <b>Nested quer</b> ies Nested queries True		query are ide		Points: 1
CO4  True / False  Jestion  Jeswer  Jive Goals  Jive Goals	e: Nested queries  Nested queries  True  False  Goal	within a quer	query are ide y are identified as separate Goal Set Name	e query blocks.  Category	Points: 1
CO4  Frue / False  Lestion  Inswer	Nested queries True False		<b>query are ide</b> y are identified as separate	e query blocks.	Points: 1
CO4  Frue / False  uestion  nsver	e: Nested queries  Nested queries  True  False  Goal	within a quer	query are ide y are identified as separate Goal Set Name	e query blocks.  Category	Points: 1
CO4  Frue / False  uestion  nsver  tive Goals  tions ID  CO4	Nested queries True False  Goal CO4	within a quer	query are ide y are identified as separate Goal Set Name	e query blocks.  Category	Points: 1
CO4  Frue / False  uestion  nsver  tive Goals  tions ID  CO4	Nested queries True False  Goal CO4	within a quer	query are ide y are identified as separate  Goal Set Name  Course Goals	e query blocks.  Category	



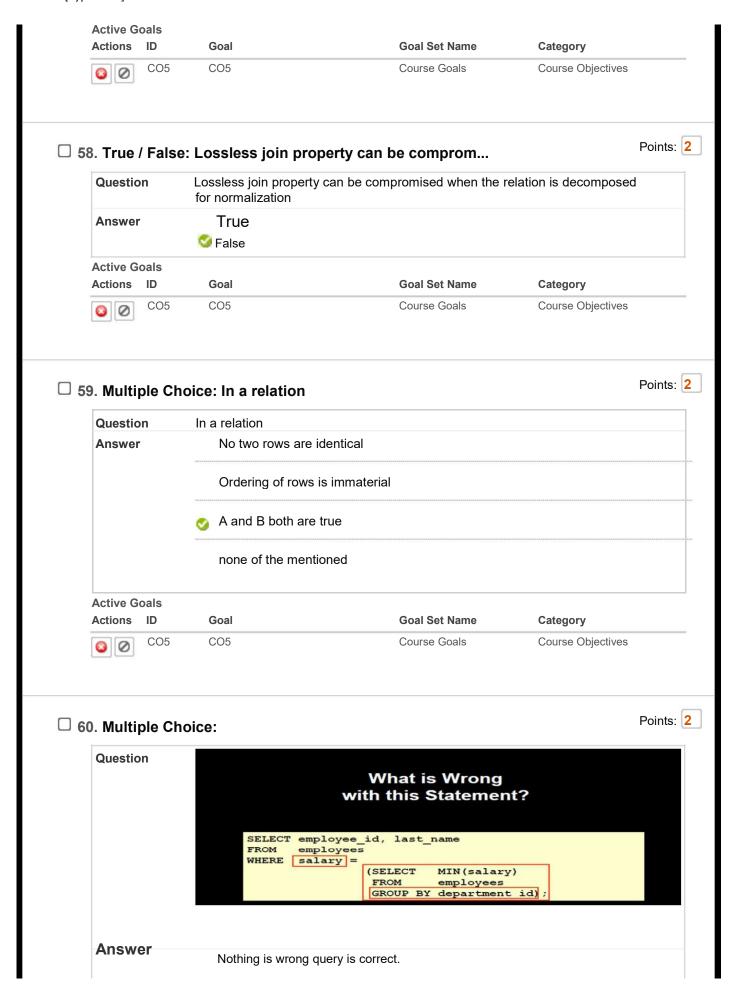
[Type here]

☐ 52. Multiple Choice: "Consider a relation schema R ( A , B... Points: 2

A	"Consider a relation schema R ( A , B , C , D ) with the functional dependencies A ? B and C ? D. The decomposition of R into R1 ( A , B ) and R2 ( C , D ) is"					
Answei	Lossless					
	lossy					
	May be lossy or los	ssless				
	Both lossy and loss	sless				
Active Goals	****					
Actions ID	Goal	Goal Set Name	Category			
CO5	CO5	Course Goals	Course Objectives			
. Multi le Ch	noice: The property of	f normalization of rela	Points: 2			
Question		ization of relations which guarar	tees that functional			
		esented in separate relations aft				
Answei	nonadditive join pro	pperty				
	independency reservation property					
	dependency preser	rvation property				
	additive join proper	ty				
	•					
	NAAAA	010.4 N				
Actions ID	Goal	Goal Set Name	Category			
	<b>Goal</b> CO5	Goal Set Name  Course Goals	Category Course Objectives			
Actions ID CO5	CO5					
Actions ID CO5	noice: If the attribute	Course Goals of relation schema R	Course Objectives Points: 2			
Actions ID CO5	noice: If the attribute	Course Goals  of relation schema R on schema R is not a member of	Course Objectives Points: 2			
Actions ID CO5	noice: If the attribute of relation	Course Goals  of relation schema R on schema R is not a member of	Course Objectives Points: 2			
Actions ID CO5  . Multiple Ch	noice: If the attribute of the attribute of type of attribute is class	Course Goals  of relation schema R on schema R is not a member of	Course Objectives Points: 2			
CO5  4. Multi le Ch Question	noice: If the attribute of the attribute of type of attribute is class nonprime attribute	Course Goals  of relation schema R on schema R is not a member of	Points: 2 some candidate key then this			
Actions ID CO5  1. Multiple Ch	If the attribute of type of attribute is class nonprime attribute	of relation schema R on schema R is not a member of sified as	Points: 2 some candidate key then this			
Actions ID CO5  4. Multiple Ch Question	If the attribute of relation type of attribute is class nonprime attribute prime attribute atomic attribute	of relation schema R on schema R is not a member of sified as	Points: 2 some candidate key then this			

## 55. Multiple Choice: Which of the following is true?

Question								
	]							
		A	В	С		R	(A,B,C)	
		1	2	1			$\wedge$	
	Which of the follo	wing is	s trye?	3			1	
Answer	The above d	ecom	positio	on 🏗 los	ssless join deco	omposition. R1(A,B)	R2 (B, C	
	The above de	ecomp	ositio	n is not	lossless join de	composition.		
	The above o	decom	npositi	on is so	ometimes lossle	ess and sometimes it is r	not.	
	It can not be	determ	nined v	vhether	the decompositi	on is lossless or not.		
Active Goals		944444444444						
Actions ID	Goal			Go	oal Set Name	Category		
CO5	CO5				ourse Goals	Course Objectives		
6. True / Fals	se: R(A,B,C) F={ A	\-> В,	B-> (	C} Dec	O	Po	pints: 2	
Question	R(A,B,C) F={ A->			ecompos	sition of R:R1(A,	C),R2(B,C) is		
	dependency pres	erving	•					
Answer	True							
	Se False							
Active Goals Actions ID	Goal			G	oal Set Name	Category		
CO5	CO5				ourse Goals	Course Objectives		
7. True / Fals	se: BCNF is stricte	er no	rmal 1	form th	nan 3NF	Po	oints: 2	
Question	BCNF is stricter n	ormal	form t	han 3NF	=			
Answer	True ] False							
		0						



[Type here] Single-row subquery returns more than one row Multi-row subquery returns more than one row Single-row subquery returns single row **Active Goals** Actions ID Goal **Goal Set Name** Category CO5 CO5 Course Goals Course Objectives Select: All None Select by Type: - Question Type - 🗸 Delete and Regrade Points Update and Regrade Hide Question Details

← ok