Con程值优码试的GGS编辑编号

Theory

Coronel, C., Morris, Management, Chap

abase Systems: Design, Implementation & www. Questions and Problems.

Review Questi

Conceptual Design

The answers supplied for these review questions are based on the support material supplied by the text to the questions of the property of the conceptual ERD and FK's is held. In looking at these sample solutions you should keep this in mind, and remember for this unit you must not include FK's on a CONCEPTUAL ERD.

1. What two conditions must be the before ah enjity can be chastified as I weak entity? Give an example of a weak entity.

To be Alssignance in the Projecto Resource Help

- 1. The entity must be existence-dependent on its parent entity.
- 2. The entity records parent entity.

For example, the (identifying) relationship depicted in the text's Figure 4. 9 shows a weak CLASS entity: Wtetchras.pomcoder

- 1. CLASS is clearly existence-dependent on COURSE. (You can't have a database class unless a database course exists.)
- 2. The CLASS entity's PK is defined through the combination of CLASS_SECTION and CRS CODE. The CRS CODE attribute is also the PK of COURSE.

The conditions that define a weak entity are the same as those for an identifying relationship between an entity and its parent. In short, the existence of a weak entity produces an identifying relationship. And if the entity is strong, its relationship to the other entity is non-identifying. (Note the solid relationship line in the text's Figure.)

Keep in mind that whether or not an entity is weak usually depends on the database designer's decisions. For instance, if the database designer had decided to use a single-attribute as shown in the text's Figure 4.8, the CLASS entity would be strong. (The CLASS entity's PK is CLASS_CODE, which is not derived from the COURSE entity.) In this case, the relationship between COURSE and CLASS is non-identifying. (Note the dashed relationship line in the text's Figure 4.8) However, regardless of how the designer classifies the relationship – non-identifying or identifying—CLASS is always existence-dependent on COURSE.

2. What is a strong (or identifying) relationship, and how is it depicted in a Crow's Foot ERD? 在为什么人的概念

An identifying relationship exists when an entity is existence-dependent on another entity and inherentity and inherentity is primary key from that entity. An identifying relationship is the control of the control of

3. Given the but the land a loyee may have many degrees," discuss its effect on attrible to the land a loyee may have many degrees," discuss its multivalued a loyee may have many degrees," discuss its effect on attrible to the loyee may have many degrees," discuss its effect on attrible to the loyee may have many degrees," discuss its effect on attrible to the loyee may have many degrees, discuss its effect on attrible to the loyee may have many degrees, discuss its effect on attrible to the loyee may have many degrees, discuss its effect on attrible to the loyee may have many degrees, discuss its effect on attrible to the loyee may have many degrees, discuss its effect on attrible to the loyee may have many degrees, discuss its effect on attribute to the loyee may have many degrees, discuss its effect on attribute to the loyee may have many degrees, discuss its effect on attribute to the loyee may have many degrees, discussion at the loyee may have many degrees.

Suppose that an employee has the following degrees: BA, BS, and MBA. These degrees could be stored in a single string as a multivalued attribute named EMP_DEGREEN an EMPTOYEE table supply as the one shown next:

	EMP_NUM	EMP_LNAME	EMP_DEGREE	
	123	Carter	AA:BBA E	Lala
	124 15518	Dighamski L	redicate proximation of the contract of the co	ı Help
	125	Jones	AS	_
	126	Ortez	BS, MS	1
1	NI DIAMAR	ONE THE COLOR	The HAZITAD THE	11n

Although the preceding solution has no obvious design flaws, it is likely to yield reporting problems. For example, suppose you want to get a count for all employees who have BBA degrees. You could be course to an "in-string" search to find all of the BBA values within the EMP to Scrings BBA such a solution is cumbersome from a reporting point of view. Query simplicity is a valuable thing to application developers — and to end users who like maximum query execution speeds. Database designers ought to pay street street of the data environment.

One – *very* poor – solution is to create a field for each expected value. This "solution is shown next:

EMP_NUM	EMP_LNAME	EMP_DEGREE1	EMP_DEGREE2	EMP_DEGREE3
123	Carter	AA	BBA	
124	O'Shanski	BBA	MBA	Ph.D.
125	Jones	AS		
126	Ortez	BS	MS	

This solution yields nulls for all employees who have fewer than three degrees. And if even one employee earns a fourth degree, the table structure must be altered to accommodate the new data value. (One piece of evidence of poor design is the need to alter table structures in response to the need to add data of an existing type.) In addition, the query simplicity is not enhanced by the fact that any degree can be listed in any column. For example, a BA degree might be listed in the second column, after an "associate of arts (AA) degree has been entered in EMP_DEGREE1.

One might simplify the query environment by creating a set of attributes that define the data entry, thus producing the following results:

EMP_NUM	EMP_LNAME	EMP_AA	EMP_AS	EMP_BA	EMP_BS	EMP_BBA	EMP MS	EMP_MBA	EMP_PhD
123	Carter	泽	14	当代	估(XS编	程 4	中	
124	O'Shanski	1		7 7		X	134	X	Χ
125	Jones		Χ						
126	Ortez	7 4 2 2			Х		Χ		

This "solution" (

e nulls at an ever-increasing pace.

The only reasor that the following tables. (There is a 1:M relationship between EMPLOTIC CEREE). Note that the EMP_NUM can occur more than once in the DEGREE table. The DEGREE table's PK is EMP_NUM + DEGREE_CODE. This solution also makes it possible to record the date on which the degree was earned, the institution from which it was particularly property.

Table name: EMPLOYEE

EMP_NUM	EMP LNAME	nment Project Exam Help
123	Carter	
124	O'Shanski	
125	Jones	(D ' ADA II 1
126 A S		atultraisco Esamo Help
.20		

Table name: DEGREE

EMP_NUM	DE GREEN QUE	OF CITY OF	DEGREE PLACE
123	AA	May-1999	Lake Sumter CC
123	BBA	Aug-2004	U. of Georgia
124	BBA	Dec-1990	U. of Toledo
124	MBATT TO S. VV	metagrat no	Noting of et
124	Ph.D.	Dec-2005	U. of Tennessee
125	AS	Aug-2002	Valdosta State
126	BS	Dec-1989	U. of Missouri
126	MS	May-2002	U. of Florida

Note that this solution leaves no nulls, produces a simple query environment, and makes it unnecessary to alter the table structure when employees earn additional degrees. (You can make the environment even more flexible by naming the new entity QUALIFICATION, thus making it possible to store degrees, certifications, and other useful data that define an employee's qualifications.)

4. What is a composite entity, and when is it used?

A composite entity is generally used to transform M:N relationships into 1:M relationships. A composite entity, also known as a bridge entity, is one that has a primary key composed of multiple attributes. The PK attributes are inherited from the entities that it relates to one another.

5. Suppose you are working within the framework of the fine and in Figure Q4.5.



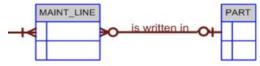
a. Write the business rules that are reflected in it.

Even a simple ERD such as the one snown in Figure Q4.5 is based on many business rules. Make sure that each business rule is written on a separate line and that all of its details are spelled out. In this case, the business rules are derived from the ERD in a "reverse engine thin the trial designed to see the business rules are derived database design situation, the ERD is generated on the basis of business rules that are written before the first entity box is drawn. (Remember that the business rules are derived from a carefully and acciscly written description of operations.)

Given the ERD shown in Figure Q4.5, you can identify the following business rules:

- 1. A customer can own many cars.
- 2. Some customers which which is possible to the customers with the control of the customers and the customers with the customers and the customers are customers are customers are customers are customers and customers are customers.
- 3. A car is owned by one and only one customer.
- 4. A car may generate one or more maintenance records.
- 5. Each maintenance record is generated by one and only one car.
- 6. Some cars have not (yet) generated a maintenance procedure.
- 7. Each maintenance procedure can use many parts.

(Comment: A maintenance procedure may include multiple maintenance actions, in the model shown above every maintenance action *requires* a part. If this was not the case, which is a more realistic business rule, then the minimum cardinality at PART for the "is written in" relationship would need to be zero:



Such a change would also mean that a unique key would be required for MAINT_LINE which did not depend on PART, for example: maintenance_no and maintenance_line_no)

8. A part may betted final maneral categories S编程辅导

(Comment: Each time an oil change is made, an oil filter is used. Therefore, many oil filters may be period of time. Naturally, you are not using the same oil filter each lassified as "oil filter" shows up in many maintenance sees.)

Note that the process of process of process of the composite entity named MAINT_LINE. The MAINT_LINE the M:N relationship between MAINTENANCE and PART has been process up to produce the two 1:M relationships shown in business rules 9 and 10.

- 9. Each mainten we procedure generates one or more maintenance lines.
- 10. Each part may appear in many maintenance lines.

As you review the pusiness rules and 10, use the oliowing worked sto show sorpe sample data entries. For example, take a look at the (simplified) contents of the following MAINTENANCE and LINE tables and note that the MAINT NUM 10001 occurs his simplified of the public of the publi

Sample MAINTENANCE Table Data

Ī	MAINT_NUN	DA	DANIA	PEW	@4 77	er.co	om
	10001	~	15-Mar-2	006	γ γ.	G 2 1 0	
	10002		15-Mar-2	006			
	10003	444	16-May 2	006	at r	M	oder
	I	NU	WS.XX		4.ap	OMC	ouci

Sample LINE Table Data

MAINT_NUM	LINE_NUM	LINE_DESCRIPTION	LINE_PART	LINE_UNITS
10001	1	Replace fuel filter	FF-015	1
10001	2	Replace air filter	AF-1187	1
10001	3	Tighten alternator belt	NA	0
10002	1	Replace taillight bulbs	BU-2145	2
10003	1	Replace oil filter	OF-2113	1
10003	2	Replace air filter	AF-1187	1

b. Identify all of the cardinalities.

The Crow's Foot ERD, shown in Figure Q4.5, does not show cardinalities directly. Instead, the cardinalities are implied through the Crow's Foot symbols. You might write the cardinality (0,N) next to the MAINT_LINE entity in its relationship with the PART entity to indicate that a part might occur "N" times in the maintenance line entity or that it might never show up in the maintenance line entity. The latter case would occur if a given part has never been used in maintenance.

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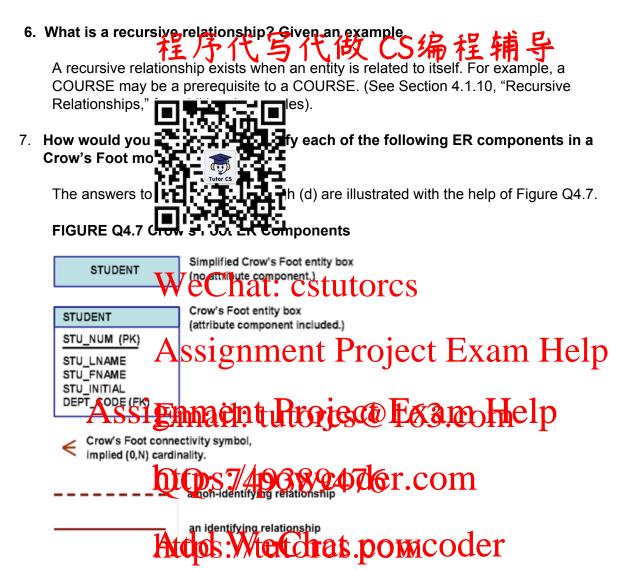
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a. an entity

An entity is represented by a rectangle containing the entity name. (Remember that, in ER modeling, the word "entity" actually refers to the entity *set*.)

b. the cardinality (0,N)

Cardinalities are implied through the use of Crow's Foot symbols. For example, note the implied (0,N) cardinality in Figure Q4.7.

c. a non-identifying relationship

A non-identifying relationship exists when the PK of the related entity does not contain at least one of the PK attributes of the parent entity. For example, if the PK of a COURSE entity is CRS_CODE and the PK of the related CLASS entity is CLASS_CODE, the relationship between COURSE and CLASS is non-identifying. (Note that the CLASS PK does not include the CRS_CODE attribute.)

d. an identifyin程编编纸写代做 CS编程辅导

An identifying relationship exists when the PK of the related entity contains at least one of the PK attril ntity. For example, if the PK of a COURSE entity is CRS_CODE attribute.)

The CRS_SEC1 because the CRS_CODE attribute.)

8. Discuss the di**lite of the property of the**

A composite key is one that consists of more than one attribute. If the ER diagram contains the attribute names for each of its entities, a composite key is indicated in the ER diagram by the last hat most than the primary key.

A composite attribute is one that can be subdivided to yield meaningful attributes for each of its composed of the composite attribute cus all the possibilities and cus attributes. There is no ER convention that enables us to indicate that an attribute is a composite attribute.

9. What two courses of action are available to a designer when he or she encounters a multivalued attribute?

The discussion to this question.

10. What is a derived attribute Cive an example OMICOGET

A derived attribute is an attribute whose value is calculated (derived) from other attributes. The derived attribute need not be physically stored within the database; instead, it can be derived by using an algorithm. For example, an employee's age, EMP_AGE, may be found by computing the integer value of the difference between the current date and the EMP_DOB. If you use MS Access, you would use INT((DATE() – EMP_DOB)/365).

Similarly, a sales clerk's total gross pay may be computed by adding a computed sales commission to base pay. For instance, if the sales clerk's commission is 1%, the gross pay may be computed by:

EMP_GROSSPAY = INV_SALES*1.01 + EMP_BASEPAY
Or the invoice line item amount may be calculated by
LINE_TOTAL = LINE_UNITS*PROD_PRICE

11. How is a relationship between entities indicated in an ERD? Give an example, using the Crow's Foot notation.

Use Figure 4.7 as the basis for your answer. Note that many products show a distinction between dashed and solid relationship lines, to indicate identifying and non-identifying relationships.

The relationship is implemented as identifying when the CLASS entity's PK contains the COURSE entity (COURSE entity)

COURSE(<u>CRS_C</u> , CRS_DESCRIPTION, CRS_CREDITS)
CLASS(<u>CRS_C</u> , CRS_CLASS_TIME, CLASS_PLACE)

Figure Q4.12a Identifying GOURSE and Chash detailers hip xam Help



Sample data are shown next;

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Table name: COURSE

CRS_COD E	CRS_TITLE	CRS-DESCRIPTION	CRS_CREDITS
ACCT-211	Basic Accounting	An introduction to accounting. Required of all business majors.	3
CIS-380	Database Techniques I	Database design and implementation issues. Uses CASE tools to generate designs that are then implemented in a major database management system.	3
CIS-490	Database Techniques II	The second half of CIS-380. Basic Web database application development and management issues.	4

Та	Table name: CLASS CRS_CODE CLASS_SECTION GASS_TIME CS编程號SPLACE							
	CRS_CODE	CLASS_SECTION	CLASS_TIME COMP 12	CLASS PLACE				
	ACCT-211	1	8:00 a.m. – 9:30 a.m. T-Th.	Business 325				
	ACCT-211	2	8:00 a.m. – 8:50 a.m. MWF	Business 325				
	ACCT-211	3	■ 00 a.m. – 8:50 a.m. MWF	Business 402				
	CIS-380	1 500 XXXX XXXX	: 1 :50 a.m. – 11:50 a.m. MWF	Business 415				
	CIS-380	2	00 p.m. – 3:50 a.m. MWF	Business 398				
	CIS-490	1 Tutor CS	200 p.m. – 3:00 p.m. MW	Business 398				
	CIS-490	2	□ 00 p.m. – 10:00 p.m. Th.	Business 398				

The relationship The Little Hon-identifying when the CLASS entity's PK does not contain the COURSE entity's PK. For example,

COURSE(<u>CRS_CODE</u>, GRS_CODE, CRS_CODE, CRS_CODE, CLASS_SECTION, CLASS_TIME, CLASS_PLACE)

(Note that CRS_CODE is no longer part of the CLASS PK, but that it continues to serve as the FK to CQ $180\,\mathrm{mment}$ $180\,\mathrm{mment}$ $180\,\mathrm{mment}$

The Crow's Foot ERD shows a non-identifying relationship as a dashed line. (See Figure 4513h. Emparint Projecto Example 1)

Figure Q4.12b Non-identifying COURSE and CLASS Relationship

	COURSE	ILUDS	.//419	GW	(14)	COF.CO	m
PK	CRS_CODE			4-4-4-	PK	CLASS CODE	
	CRS_TITLE CRS_DESCRIPTION		generales	0	FK1	CRS_CODE CLASS_SECTION	
	CRS_CREDITS	NUOS	:YXTE	itch	as	DOMC(Dae

Given the non-identifying relationship depicted in Figure Q4.13b, the CLASS table contents would look like this:

Table name: CLASS

CLASS_CODE	CRS_CODE	CLASS_SECTION	CLASS_TIME	CLASS_PLACE
21151	ACCT-211	1	8:00 a.m. – 9:30 a.m. T-Th.	Business 325
21152	ACCT-211	2	8:00 a.m. – 8:50 a.m. MWF	Business 325
21153	ACCT-211	3	8:00 a.m. – 8:50 a.m. MWF	Business 402
38041	CIS-380	1	11:00 a.m. – 11:50 a.m. MWF	Business 415
38042	CIS-380	2	3:00 p.m. – 3:50 a.m. MWF	Business 398
49041	CIS-490	1	1:00 p.m. – 3:00 p.m. MW	Business 398
49042	CIS-490	2	6:00 p.m. – 10:00 p.m. Th.	Business 398

The advantage of the second CLASS entity version is that its PK can be referenced easily as a FK in another related entity such as ENROLL. Using a single-attribute PK makes implementation easier. This is especially true when the entity represents the "1" side in one *or more* relationships. In general, it is advisable to avoid composite PKs whenever it is practical to do so.

The label "composite" is based on the fact that the composite entity contains at least the primary key attribute entities that are connected by it. The composite entity is an imposite entity is an imposite entity is an imposite entity in an imposite entity is an imposite entity in an imposite entity in an imposite entity is an imposite entity can be used to break up such relationships.

Avoid compos to tis practical to do so. Note that the CLASS entity structure shown in Figure (24.12a. Suppose, for example, that you want to design a class enrollment entity to serve as the "bridge" between STUDENT and CLASS in the M:N relationship defined by these two business rules:

- A student van (a) (e many classes 111101°CS
- Each class can be taken by many students.

In this case, you could create a (composite) entity named ENPOLL to link CLASS and STUDENT, using the select EXAM Help

STUDENT(STU_NUM, STU_LNAME.....)
ENROLLATU SUUTI OLASS PLUM, FIROLL CROPET X 2010 - THE D
CLASS (CLASS CODE, CRS_CODE, CLASS_SECTION, CLASS_HME, CLASS_PLACE)

You might argue that a composite PK in ENROLL does no harm, since it is not likely to be related to an other party. At the control of the party of the control of the contr

ENROLL(**ENROLL NUM**, STU_NUM, CLASS_NUM, ENROLL_GRADE)

The ENROLL_NUM attribute values can easily be generated through the proper use of SQL code or application software, thus eliminating the need for data entry by humans.

Let's examine another example of the use of composite entities. Suppose that a trucking company keeps a log of its trucking operations to keep track of its driver/truck assignments. The company may assign any given truck to any given driver many times and, as time passes, each driver may be assigned to drive many of the company's trucks. Since this M:N relationship should not be implemented, we create the composite entity named LOG whose attributes are defined by the end-user information requirements. In this case, it may be useful to include LOG_DATE, TRUCK_NUM, DRIVER_NUM, LOG_TIME_OUT, and LOG_TIME_IN.

Note that the LOG's TRUCK_NUM and DRIVER_NUM attributes are the driver LOG's foreign keys. The TRUCK_NUM and DRIVER_NUM attribute values provide the bridge between the TRUCK and DRIVER, respectively. In other words, to form a proper bridge between TRUCK and DRIVER, the composite LOG entity must contain at least the primary keys of the entities connected by it.

You might think that the combination of the top posite or the freight by smay be designated to be the composite entity's primary key. However, this combination will not produce unique values over time. For example, the same driver may drive a given truck to the PK attributes will solve that problem. But we on different date still have a non n the same driver drives a given truck twice on the same date. Add vill finally create a unique set of PK attribute values – but the PK is nc attributes: TRUCK_NUM, DRIVER_NUM, LOG DATE, an (The combination of these attributes yields a unique cannot check out two trucks at the same time on a outcome, becau given date.)

Because multi-attribute PKs may be difficult to manage, it is often advisable to create an "artificial" single-attribute PK, such as LOG_NUM, to uniquely identify each record in the LOG table Oracle star can file such an attribute via a sequence to ensure that the system will generate unique LOG_NUM values for each record.) Note that this solution produces a LOG table that contains two candidate keys: the designated primary key and the combination of foreign keys that could have served as the primary key.

While the preceding solution simplifies the PK definition, it does not prevent the creation of duplicate certain the following table.

LOG_NUM	LOG_DATE	TRUCK NUM		LOG_TIME_OUT	LOG_TIME_IN
10015	12-Mar-2(0)	12Q53//1QC	1215	07(18(a)n).	04:23 p.m.
10016	12-Mar-200	322453	1215	07:18 a.m.	04:23 p.m.
10017	12-Mar-2006	545567	1298	08:12 a.m.	09:15 p.m.

To avoid such data a economic process of the interest TRUCK_NUM + DRIVER_NUM + LOG_DATE + LOG_TIME_OUT.

Composite entities may be named to reflect their component entities. For example, an employee may have several insurance policies (life, dental, accident, health, etc.) and each insurance policy may be held by many employees. This M:N relationship is converted to a set of two 1:M relationships, by creating a composite entity named EMP_INS. The EMP_INS entity must contain *at least* the primary key components of each of the two entities connected by it. How many additional attributes are kept in the composite entity depends on the end-user information requirements.

14. Briefly, but precisely, explain the difference between single-valued attributes and simple attributes. Give an example of each.

A single -valued attribute is one that can have only one value. For example, a person has only one first name and only one social security number.

A simple attribute is one that cannot be decomposed into its component pieces. For example, a person's sex is classified as either M or F and there is no reasonable way to decompose M or F. Similarly, a person's first name cannot be decomposed into meaningful components. (In contrast, if a phone number includes the area code, it can be decomposed into the area code and the phone number. And a person's name may be decomposed into a first name, an initial, and a last name.)

Single-valued attroutes are not pecessal by simple for inventory code HWPRIJ23145 may refer to a classification scheme in which HW indicates Hardware, PR indicates Printer, IJ indicates Inkjet, and 23145 indicates an inventory control number. Therefore the product tracking in the product tracking, manufacturing serial codes must be single-for instance, the product tracking in the product

P5 = plant number s

S2 = shift 2

M23 = machine 23

11 = month i.e. (No prober Cstutorcs

09 = day

154321 = time on a 24-hour clock, i.e., 15:43:21, or 3:43 p.m. plus 21 seconds.

15. What are multivalue Salterbut 13, and how can the be to and a salter than the detail as design?

The appearance of the property of the property

As the name implies, multi-valued attributes may have many values. For example, a person's education for the procession of the procession

There are basically three ways to handle multi-valued attributes -- and two of those three ways are bad:

1. Each of the possible outcomes is kept as a separate attribute within the table. This solution is undesirable for several reasons. First, the table would generate many nulls for those who had minimal educational attainments. Using the preceding example, a person with only a high school diploma would generate nulls for the 2-year college associate degree, the four-year college degree, the Master's degree, the Doctoral degree, and for each of the professional certifications. In addition, how many professional certification attributes should be maintained? If you store two professional certification attributes, you will generate a null for someone with only one professional certification and you'd generate two nulls for all persons without professional certifications. And suppose you have a person with five professional certifications? Would you create additional attributes, thus creating many more nulls in the table, or would you simply ignore the additional professional certifications, thereby losing information?

- 2. The educational attainments may the kell is a single mariable-land had attainments may the kell is a single mariable-land had not character field. This solution is undesirable because it becomes difficult to query the table. For example, even a simple question such as "how many employees have four-year consuming at ed to ever group employees by education, the variable-land comparison of view. However, as database difficult to query the table. For example, even a simple question such as "how many employees have four-year consuming at ed to ever group employees by education, the variable-land comparison of view. However, as database difficult to query the table. For example, even a simple question such as "how many employees have four-year consuming at ed to ever group employees by education, the variable-land consuming at ed to ever group employees by education, the variable-land consuming at ed to ever group employees by education, the variable-land consuming at ed to ever group employees by education, the variable-land consuming at ed to ever group employees by education, the variable-land consuming at ed to ever group employees by education, the variable-land consuming at ed to ever group employees by education, the variable-land consuming at ed to ever group employees by education, the variable-land consuming at ed to ever group employees by education, the variable-land consuming at ed to ever group employees by education, the variable-land consuming at ed to ever group employees by education, the variable-land consuming at ed to ever group employees by education, the education is underland to ever group employees by education, the education is underland to ever group employees by education is education.
- 3. Finally, the composite entry that hims emproyees to education. By using the composite entity, there will never be a situation in which additional attributes must be created within the EMPLOYEE table to accommodate people with multiple certifications. In short, we eliminate the general part nulls sit addition, we gain information flexibility because we can also store the details (date earned, place earned, etc.) for each of the educational attainments. The (simplified) structures might look like those in Figure Q4.16 A and B.

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Figure Q4.16a The Ch04_Questions Database Tables

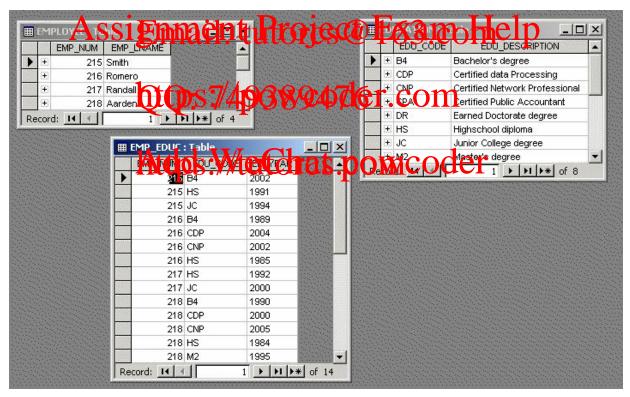
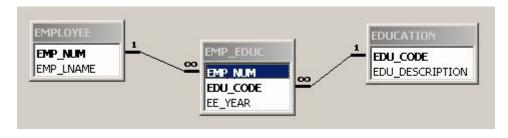


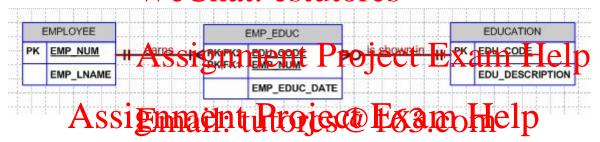
Figure Q4.16b The Ch04_Questions Relational Diagram



By looking at the structures shown in Egures Ga and Supplied Public Accountant the employee named Romero earned a Bachelor's degree in 1989, a Certified Network Professional certification in 2002, and a Certified Data Processing certification in 2004. If Randall were to earned by and a Certified Public Accountant certification later, we merely add and attainments beyon attainments beyon EDUCATION table are earned by any employee, all we need to do is a coord(s) to the EDUCATION table, then enter the employee's attaining the coord of the coord of

The database design on which rightes Q4.16a and Q4.16b are based is shown in Figure Q4.16c.

Figure Q4.16c The Crows Foot ERD for the Chit Questions Database

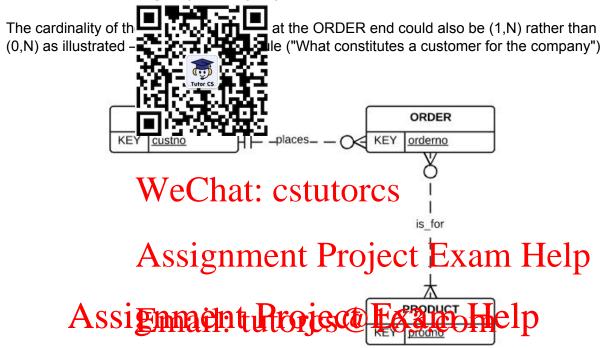


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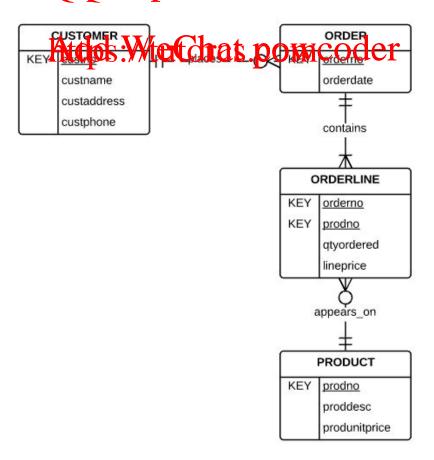
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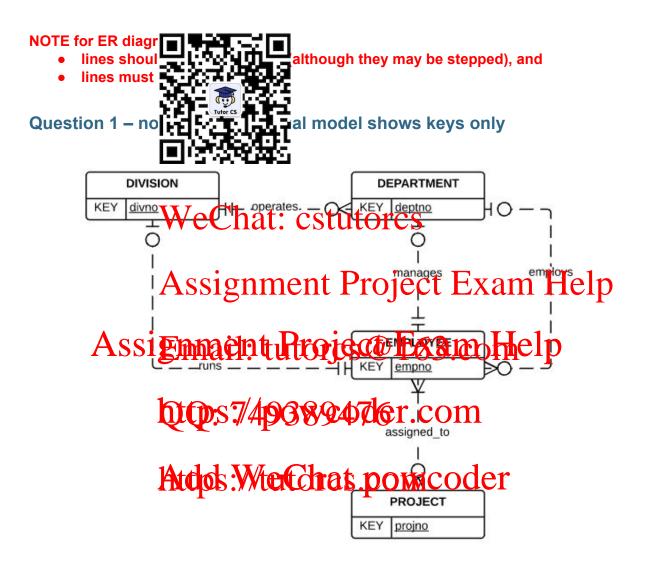
(i) Basic ERD showing only primary keys



(ii) Complete ERD https://www.com



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Question 2 - no程h序Chicsuk Mixtel clos编程辅明

