



THE UNIVERSITY OF  
MELBOURNE

# INFO20003: Database Systems

Assignment Project Exam Help

<https://powcoder.com>

Dr Renata Borovica-Gajic  
Add WeChat powcoder

Lecture 23

Overview, sample exam questions

Part I

Week 12

# Assignment Project Exam Help

<https://powcoder.com>

Add WeChat powcoder

## Concept Chen's not. Crow's foot not.

Entity		
Weak Entity		
Attribute		
Multivalued A.		
Composite A.		
Derived A.		
Key A.		
Weak (or Partial) Key A.		
Relationship		
Weak (Identifying) Relationship		

## Relationship cardinalities and constraints

	Chen's notation	Crow's foot notation
Optional Many 0..m		
Mandatory Many 1..m		
Optional One 0..1		
Mandatory One 1..1		

Assignment Project Exam Help

<https://powcoder.com>

Add WeChat powcoder

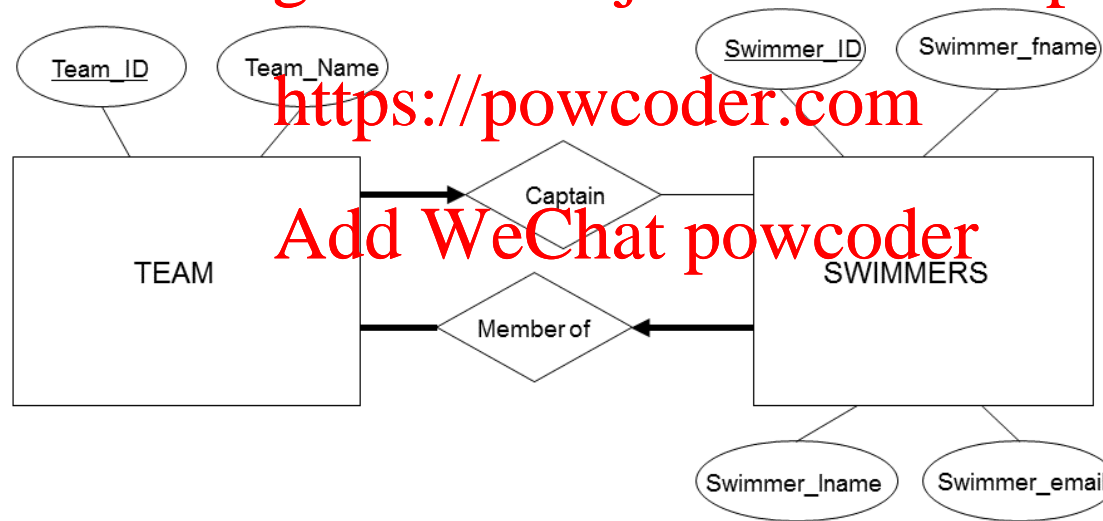
## BINARY Relationships Cardinalities

Here we just looked at cardinalities and omitted participation constraints (optional/mandatory) for clarity

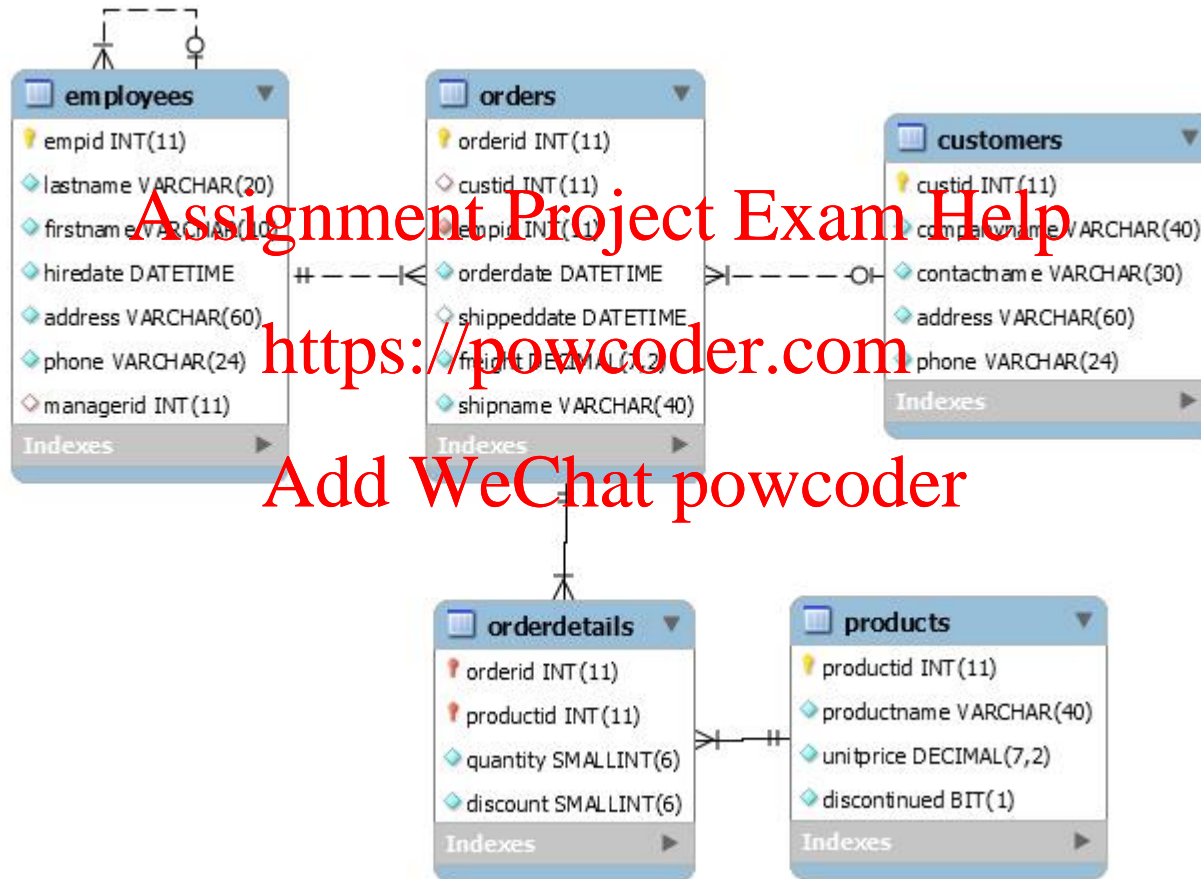
Many to Many		
One to Many		
One to One		

QUESTION

Write SQL statements to create the tables for the data model below. Be sure to specify primary and foreign keys. You do not need to specify whether the fields are NULL/NOT NULL.

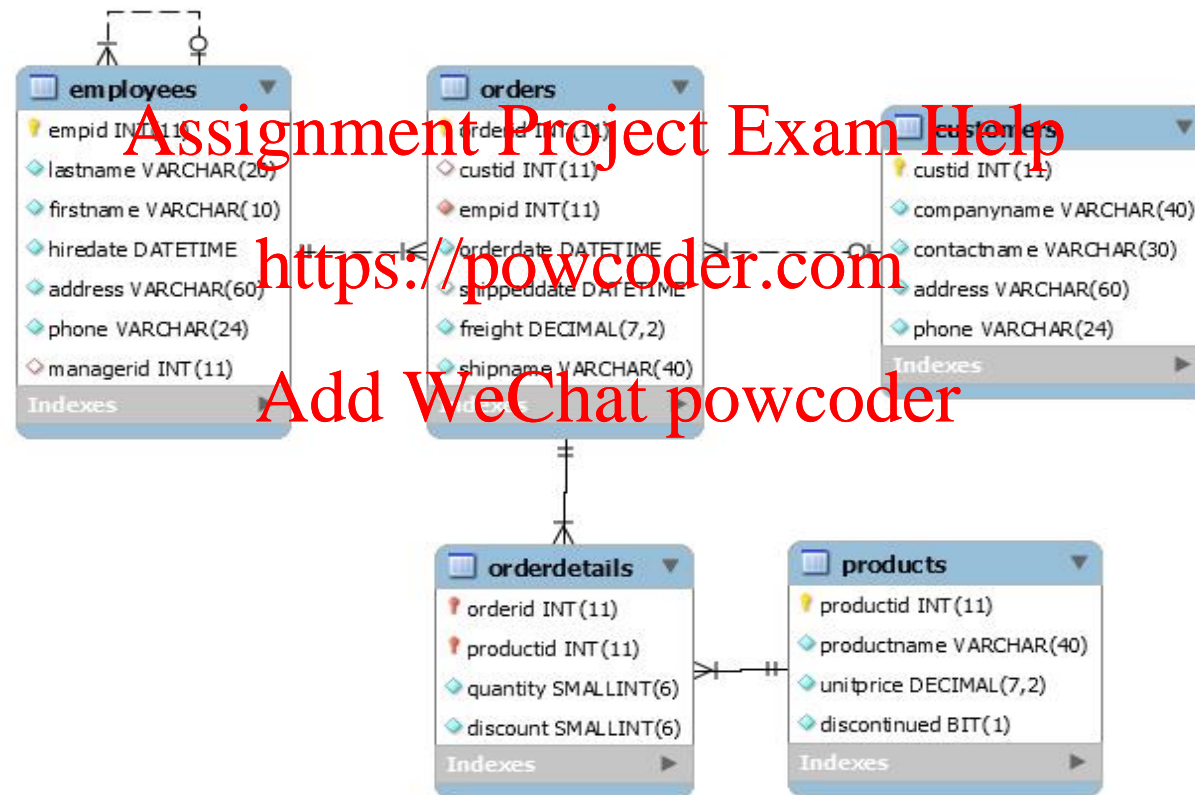


Given the following schema, write a *single* SQL statement to correctly answer each of the following questions. DO NOT USE VIEWS to answer questions.



Microsoft

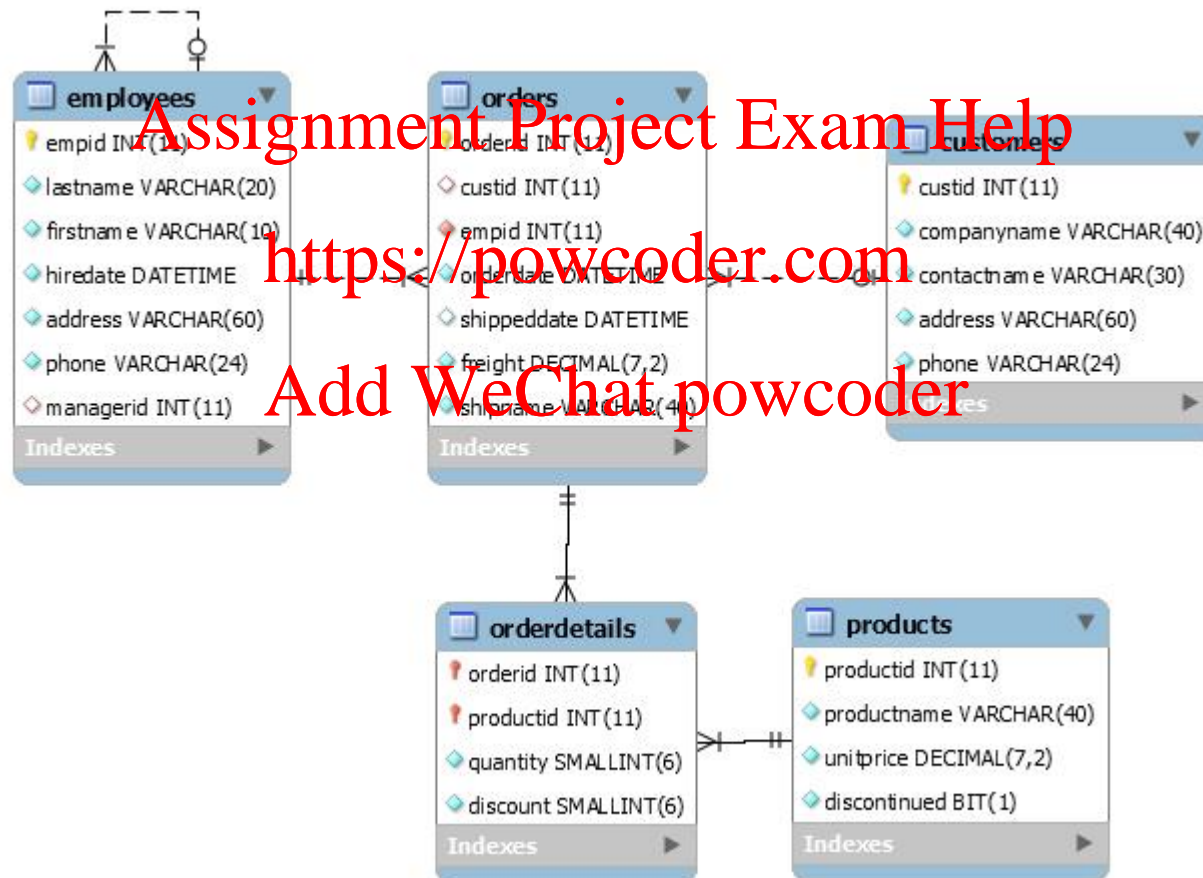
Write a query that returns the first name and last name of employees whose manager was hired prior to 01/01/2002.





QUESTION

Write a query that returns customers IDs whose company name is 'Google', and for each customer return the total number of orders and total quantities for all products that were not discontinued ('1' means discontinued, '0' not discontinued).





- Sample exam questions Part II

Assignment Project Exam Help

<https://powcoder.com>

Add WeChat powcoder