

# Question2

## Question

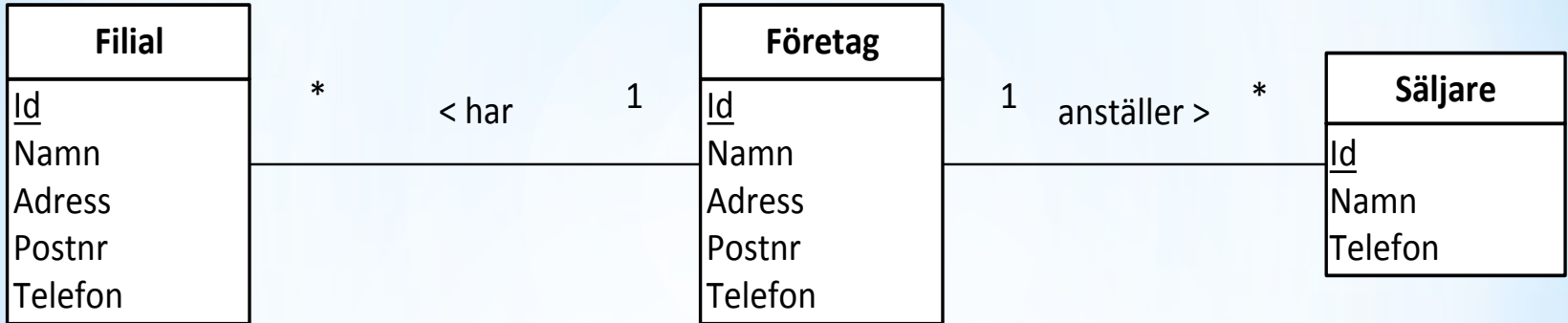
Its not easy to design databases. In the literature (Connolly/Begg) they discuss 2 traps.

Name and explain the traps and show the solution. (8p)

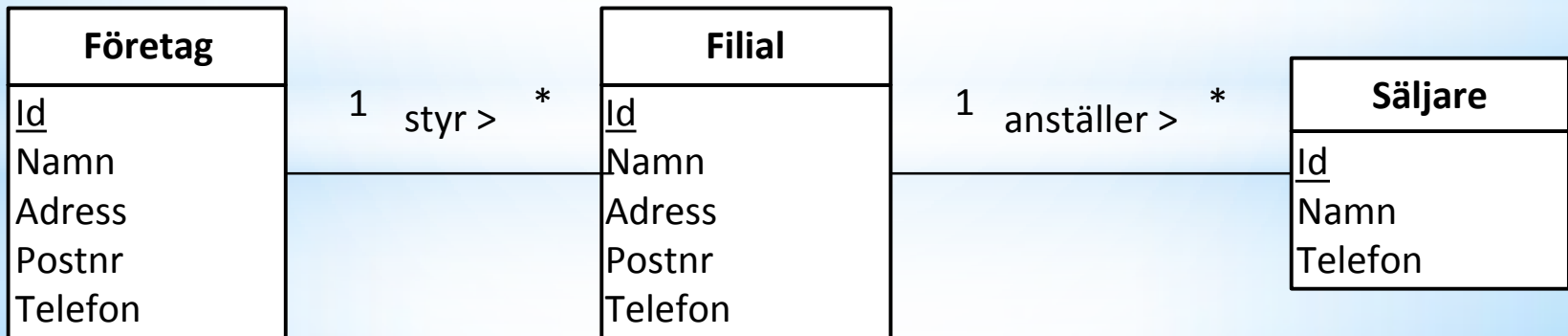
The name1p, explanation1p and Solution 2p. Tot. 2  
x 4p = **8p**

# Answer

**Fan trap:** Bad relations between entities (s. 342).

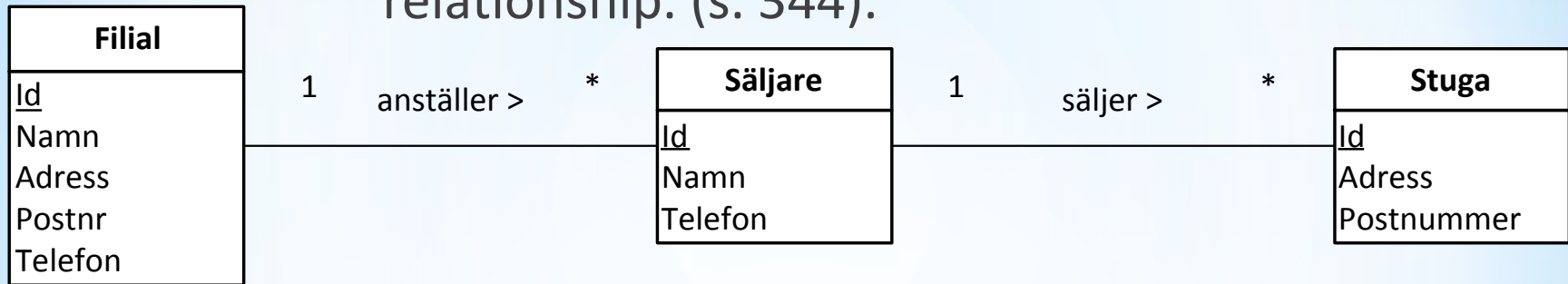


**Solution:**

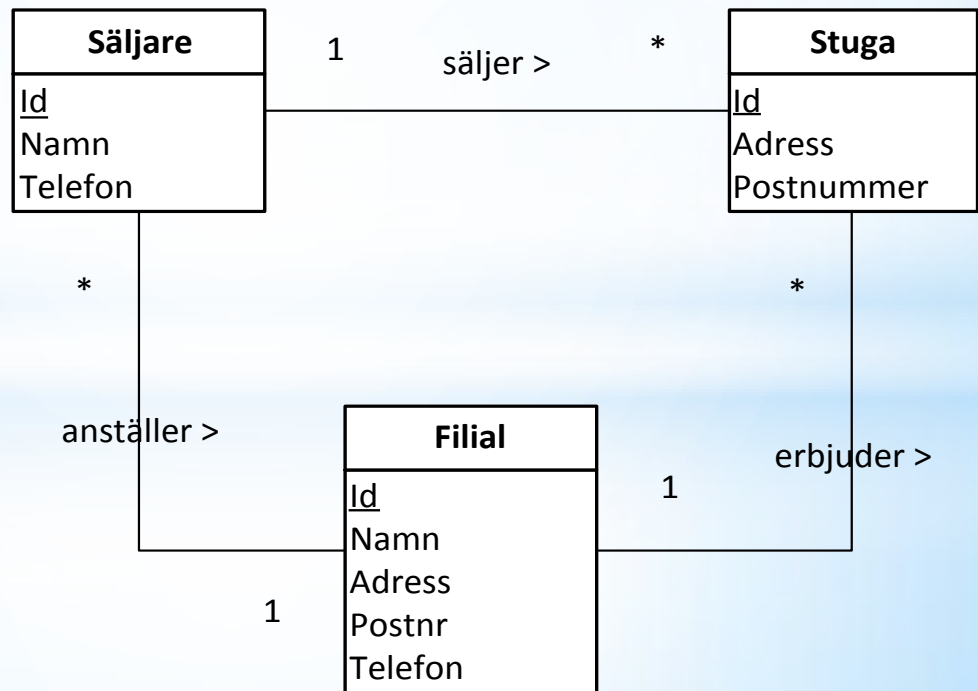


# Answer

**Chasm trap:** To answer the question we need a new relationship. (s. 344).



**Solution:**





# Answer

## Normalization rules chapt. 14

2p for each correct relation = 12p tot.

<i>StudentId</i>	<i>CourseId</i>	Grade	<i>CourseId</i>	<i>Coursenamn</i>	Points	<i>coursedescription</i>
7954-B13	IK2002	VG	IK2002	Introduktion till informatik	7,5	Kursens mål är att...
8292-Y24	IK2002	G	IK4001	Databaser och databasdesign	7,5	Kursens mål ...
7954-B13	IK4001	U	IK4003	Databaser och databasdesign	7,5	Kursens ...
7954-B13	IK4003	G				

<i>StudentId</i>	<i>Fname</i>	<i>Lname</i>	<i>Adress</i>	<i>Postal code</i>	<i>Telephon e</i>	<i>E-mail</i>	<i>ProgramId</i>
7954-B13	Karin	Johansson	Hemmansv 42	30253	178812	<a href="mailto:Karjoh@student.hh.se">Karjoh@student.hh.se</a>	SGMMD
8292-Y24	Pelle	Gustafson	Släggvägen 5	30572	0707377	<a href="mailto:pelgus1@student.hh.se">pelgus1@student.hh.se</a>	SGVIP

<i>Postal code</i>	<i>City</i>
30253	Halmstad
30572	Steninge

<i>ProgramId</i>	<i>Programname</i>
SGMMD	Multimediadesign
SGVIP	Valfritt informatikprogram

<i>ProgramId</i>	<i>CourseId</i>
SGMMD	IK2002
SGVIP	IK2002
SGMMD	IK4001
SGMMD	IK4003