Problem 1

select assoc.name as association, company.name as company, domain.domain from sites
      join associations as assoc on sites.association = assoc.id
      join companies as company on sites.company = company.id
      join domains as domain on sites.id = domain.site
where assoc.id = 1

Association	Company	Domain
Basement Systems, Inc.	Lacinia Institute	vulputatelacuscras.net
Basement Systems, Inc.	Sem Egestas Foundation	ligulaaenean.edu
Basement Systems, Inc.	Adipiscing Ltd	quisqueporttitoreros.org
Basement Systems, Inc.	Adipiscing Ltd	duiselementumdui.ca
Basement Systems, Inc.	Feugiat Non Lobortis Associates	risusquisque.com
Basement Systems, Inc.	Odio LLC	maurisnondui.com
Basement Systems, Inc.	Odio LLC	orci.com
Basement Systems, Inc.	Ultrices Iaculis Ltd	egestasnunc.com
Basement Systems, Inc.	Ultrices Iaculis Ltd	mattissemper.net
Basement Systems, Inc.	Pede Nec Ante Company	nulla.edu
Basement Systems, Inc.	Scelerisque Lorem Ipsum Incorporated	aliquam.ca
Basement Systems, Inc.	Scelerisque Lorem Ipsum Incorporated	vitaeodiosagittis.co.uk
Basement Systems, Inc.	Phasellus Ornare Fusce Consulting	nec.edu
Basement Systems, Inc.	Ipsum Dolor Incorporated	nuncut.ca

Basement Systems, Inc.	Lorem Ipsum Company	noncursusnon.com
Basement Systems, Inc.	Habitant Morbi Inc.	phasellusat.net
Basement Systems, Inc.	Eleifend Associates	ullamcorper.com
Basement Systems, Inc.	Lacinia At Iaculis Associates	sagittis.org
Basement Systems, Inc.	Accumsan Neque PC	gravidasit.ca

Problem 2

```sql
select assoc.name as association, company.name as company from sites
 join associations as assoc on sites.association = assoc.id
 join companies as company on sites.company = company.id
 left join domains as domain on sites.id = domain.site
where  domain.domain is null
```

Association	Company
Basement Systems, Inc.	Diam Inc.
Basement Systems, Inc.	Lorem Company
Basement Systems, Inc.	Enim Mi Limited
Basement Systems, Inc.	Pede Nonummy Associates
Basement Systems, Inc.	Vel Company
CleanSpace	Purus Nullam Scelerisque Incorporated
CleanSpace	Nibh Enim Gravida Limited
CleanSpace	Nibh Enim Gravida Limited
CleanSpace	Natoque Penatibus Consulting
CleanSpace	Odio LLC
CleanSpace	Magna Nec Institute

CleanSpace	A Malesuada Id Company
Dr. Energy Saver, LLC	Egestas Associates
Dr. Energy Saver, LLC	Lorem Company
Dr. Energy Saver, LLC	Vitae Sodales At Industries
Dr. Energy Saver, LLC	Vulputate Industries
Dr. Energy Saver, LLC	Semper Nam Ltd
Dr. Energy Saver, LLC	Vulputate Ullamcorper Company
Dr. Energy Saver, LLC	Orci Lacus Limited
Dr. Energy Saver, LLC	Eu Ltd
Foundation Supportworks, Inc.	Dolor Sit Foundation
Foundation Supportworks, Inc.	Nulla Corporation
Foundation Supportworks, Inc.	Nam Institute
Foundation Supportworks, Inc.	Cras Interdum Inc.
Foundation Supportworks, Inc.	Odio LLC
Foundation Supportworks, Inc.	Donec Sollicitudin Adipiscing LLC
Foundation Supportworks, Inc.	Egestas Associates
Foundation Supportworks, Inc.	Accumsan Ltd
Total Basement Finishing, Inc.	Amet LLP
Total Basement Finishing, Inc.	Lacinia Sed Consulting

Total Basement Finishing, Inc.	Lacinia Institute
Total Basement Finishing, Inc.	Nibh Enim Gravida Limited
Total Basement Finishing, Inc.	Accumsan Ltd
Total Basement Finishing, Inc.	Cras Interdum Inc.
Total Basement Finishing, Inc.	Odio Phasellus Ltd
Total Basement Finishing, Inc.	Ultrices Iaculis Ltd

Problem 3

select sites.id, sites.name from sites
        join domains as domain on sites.id = domain.site
GROUP BY sites.id
having count(sites.id) = sum(domain.is_deleted)

Site	IdSite
3	Kentucky
11	California
13	Oklahoma
19	Iowa
21	Iowa
25	Georgia
29	Tennessee
31	Wisconsin
32	Arkansas

33	Connecticut
34	Wyoming
36	Arkansas
38	Vermont
44	California
47	Montana
49	Oregon
53	Washington
59	Georgia
62	Wyoming
63	Oregon
66	Kentucky
73	Vermont
80	Nevada
83	Nevada
85	Arkansas
87	Florida
94	Wyoming
95	Wyoming

96	Indiana
99	Missouri
100	Virginia