Complex Queries

1)

**select** ph.hobby

**from** president p **inner** **join** pres\_hobby ph **on** ph.pres\_id =p.id

**where** p.**name** **not** **in**

(**select** e.candidate

**from** election e

**where** e.winner\_loser\_indic = 'L')

**group** **by** ph.hobby

2)

**select** s."name"

**from** state s

**where** s.id **in** (

**select** p.state\_id\_born

**from** president p

) **and** s.id **not** **in** (

**select** p.state\_id\_born

**from** president p

**inner** **join** administration a **on** a.pres\_id = p.id

**where** a.year\_inaugurated <= 1900

)

**group** **by** s."name"

**order** **by** s."name"

3)

**select** s."name"

**from** state s

**where** s.id **in** (

**select** p.state\_id\_born

**from** president p

) **and** s.id **not** **in** (

**select** p.state\_id\_born

**from** president p

**inner** **join** election e **on** e.candidate = p."name"

**where** e.winner\_loser\_indic = 'L'

)

**order** **by** s."name"

4)

**select** s."name"

**from** state s

**inner** **join** president p2 **on** s.id = p2.state\_id\_born

**where** p2.id **not** **in** (

**select** pm.pres\_id

**from** pres\_marriage pm

**group** **by** pm.pres\_id

**having** **sum**(pm.nr\_children) > 0

)

**group** **by** s."name"

**order** **by** s."name"

5)

**select** p2.**name**

**from** president p2

**inner** **join** pres\_hobby ph2 **on** ph2.pres\_id = p2.id

**where** p2.**name** = **any** (

**select** p.**name**

**from** president p

**inner** **join** pres\_hobby ph **on** p.id = ph.pres\_id

**group** **by** p.**name**

**having** **count**(ph.hobby) = 1

)

**and** ph2.hobby = (

**select** ph3.hobby

**from** pres\_hobby ph3

**where** ph3.pres\_id = 7

)

**order** **by** p2.**name**