AJ Ricketts Prof

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Sunday October 6th, 2019

COMP 3005 Assignment #2

1. { H.Name | H in Hobby and (( exists P1 in Person, P2 in Play) (P1.P# = ‘Lastname’ and P1.P# = P2.P# and H.H# = P2.H#))}

**Result: Name**

Chess

Dancing

1. { P1.Name | P1 in Person and (( exists H in Hobby, P2 in Play) (H.Name = ‘Bowling’ and P2.H# = H.H# and P1.P# = P2.P#))}

**Result: Name**

Smith

Jones

1. { P1.Name | P1 in Person and (( exists P2 in Play) ( P2.count(\*) > 3 and P1.P# = P2.P#))}

**Result: Name**

Smith

Jones

Lastname

1. { P1.Name | P1 in Person and ((exists H in Hobby, P2 in Play) (( H.Name = ‘Chess’ or H.Name = ‘Dancing’) and (P2.H# = H.H# and P1.P# = P2.P#)))}

**Result: Name**

Smith

Jones

Blake

Lastname

1. { P1.Name | P1 in Person and (( exists H1 in Hobby, H2 in Hobby, exists P2 in Play) ( H1.Name = ‘chess’ and P2.H# = H.H# and P2.P# = P1.P#) ( H2.Name = ‘Dancing’ and P2.H# = H2.H# and P2.P# = P1.P#))}

**Result: Name**

Smith

Jones

Blake

Lastname

1. {P1.Name, H.Name | P1 in Person, H in Hobby and (( exists P2 in Play) ( P1.P# = P2.P# and P2.H# = H.H#))}

**Result: Name Name**

Smith Bowling

Smith Chess

Smith Dancing

Smith Hiking

Smith Skating

Smith Ski

Jones Bowling

Jones Chess

Jones Dancing

Jones Hiking

Blake Chess

Blake Dancing

Lastname Chess

Lastname Dancing

1. {P1.Name | P1 in Person, H in Hobby and ((forall P2 in Play) (H.H# = ‘Ski’ and P2.H# = H.H#))}

**Result: Name**

Jones

Blake

Lastname

Adam

1. { P1.Name | P1 in Person, H in Hobby and ( forall P2 in Play) ( P2.H# != H.H#))}

**Result: Name**

Adams

1. { P1.Name | P1 in Person and ((forall H in Hobby) ( exists P2 in Play) (P.P# = P2.P# and P2.H# = H.H#))}

**Result: Name**

Smith

2. { P1.Name | P1 in Person and (( forall H1 in Hobby, H2 in Hobby) (H1.Nmae != ‘Skating’ and (exists P2 in Play) ( P1.P# = P2.P# and P2.H# = H1.H#)) (H2.Name != ‘Ski’ and (P1.P# = P2.P# and P2.H = H2.H#))}

**Result: Name**

Jones

1. {P1.Name, count(P2.H#), sum(P2.Times) | P1 in Person, P2 in Play and P1.P# = P2.P#}

**Name Count Total**

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Smith 6 13

Jones 4 14

Blake 2 05

Lastname 2 07

1. T1:= { count(P1.H#) | P1 in Play}

{ P1.Name, min(T1) | P1 in Person and (exists P2 in Play) (P1.P# = P2.P#)}

**Result: Name**

Blake

Lastname