

COMP 3005 Assignment #1

1. T1:= project P# (select Name = 'Lastname' (Person))
T2:= T1 njoin Play
T3:= project Name (T2 njoin Hobby)

Result: Name

Chess
Dancing

2. T1:= project H# (select Name = 'Bowling'(Hobby))
T2:= Play / T1
T3:= project Name (T2 njoin Person)

Result: Name

Smith
Jones

3. T1:= select Times > 3 (Play)
T2:= Person njoin T1
project Name (T2)

Result: Name

Smith
Jones
Lastname

4. T1:= select Name = 'Chess'(Hobby)
T2:= select Name = 'Dancing'(Hobby)
T3:= Play / T1
T4:= Play / T2
T5:= T3 union T4
T6:= T5 join Person (P# = P#)

project Name (T6)

Result: Name

Smith
Jones
Blake
Lastname

5. T1:= select Name = 'Chess' and Name = 'Dancing' (Hobby)
T2:= project H#(T1)
T3:= Play / T2
T4:= T3 join Person (P# = P#)

project Name (T4)

Result: Name

Smith
Jones
Blake
Lastname

6. T1(H#, Name2):= project H#, Name (Hobby)
T2:= Person njoin Play (P# = P#)
T3:= T2 njoin T1(H# = H#)
project Name, Name2 (T3)

Result: Name Name2

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

7. T1:= project H# (select Name = 'Ski'(Hobby))
T2:= Play / T1
T3:= Play join T2 (P# ≠ P#)
T4:= T3 njoin Person (P# = P#)

project Name (T4)

Result: Name

Jones
Blake
Lastname

8. T1:= Project P#(Person)
T2:= Project P#(Play)

T3:= T1 - T2
T4:= T3 njoin Person (P# = P#)

project Name (T4)

Result: Name

Adams

9. T1:= project H#(Hobby)
T2:= Play / T1
T3:= project P# (T2)

T4:= T3 njoin Person (P# = P#)

project Name (T4)

Result: Name

Smith

10. T1:= select Name = 'Lastname' (Person)
T2:= project H# (T1 njoin Play)
T3:= Play / T2
T4:= T3 njoin Person (P# = P#)

project Name (T4)

Result: Name

Chess
Dancing

11.

12. T1:= project H# (select Name ≠ Skating and Name ≠ Ski (Hobby))
T2:= Play / T1
T3:= T2 njoin Person (P# = P#)

project Name (T3)

Result: Name

Smith
Jones

13. aggregate P#, sum (Times)(Play)
aggregate count (H#)(Hobby)
project Name (Person)

Result: 39
6

Names

Smith
Jones
Blake
Lastname
Adams

- 14.