Ryan Blair
TR Section

HW 2

1.

Name
'Roger Waters'
~~'Syd Barrett'~~
'Irmin Schmidt'
'Michael Karoli'
'Lou Reed'

Π_{Name} (A.Year <= M.To and A.Year >= M.From) ⋈ M

Π_{Name} (A.Year = 1970) ⋈ A

2.

M.Name	B.Name
'Roger Waters'	'Pink Floyd'
~~'Syd Barrett'~~	~~'Pink Floyd'~~
'Irmin Schmidt'	'Can'
'Michael Karoli'	'Can'
'Lou Reed'	'Velvet Underground'

$\Pi_{M.Name, B.Name}$ ⋈ B

$\Pi_{M.Name}$ (A.Year <= M.To and A.Year >= M.From) ⋈ M

$\Pi_{M.Name}$ (A.Year = 1970) ⋈ A

3.

Name	From	To
'David Allen'	1969	1974
'Pierre Moerlen'	1975	1978

$\Pi_{Name, From, To}$ (BandId = 6) ⋈ M

4.

Name	From	To
'Robert Fripp'		
'Bill Bruford'		

Π_{Name} (1974 <= M.To And 1974 >= M.From) ⋈ Π_{Name} (BandId = 2) ⋈ M

5.

M.Name	B.Name
'Robert Fripp'	'King Crimson'
'Irmin Schmidt'	'Can'
'Michael Karoli'	'Can'
'Jim Morrison'	'Doors'
'Lou Reed'	'Velvet Underground'
'David Allen'	'Gong'
'Jon Anderson'	'Yes'
'Bill Bruford'	'Yes'

$\Pi_{M.Name, B.Name}$ (B.Id = M.BandId AND B.Formed-In = M.From) ⋈ M ⋈ B

6.

Name
'Velvet Underground'

$\Pi_{B.Name}$ (A.Title = 'Loaded' And B.Id = A.BandId) ⋈ B ⋈ A

7.

Name
'Doors'

$\Pi_{B.Name}$ (M.Name = 'Jim Morrison' AND B.Id = M.BandId) ⋈ B ⋈ M

8.

A.~~Name~~ Title	Year	B.Name
'Meddle'	1970	'Pink Floyd'
'Animals'	1977	'Pink Floyd'
'Beat'	1982	'King Crimson'
'Red'	1974	'King Crimson'
'Fragile'	1971	'Yes'
'Close to the Edge'	1972	'Yes'

$\Pi_{A.Title, Year, Name}$ (B.Country = 'UK') ⋈ A ⋈ B

9.

Name
'Jon Anderson'
'Bill Bruford'

$\Pi_{M.Name}$ (A.Title = 'Fragile' AND A.BandId = B.Id AND A.Year <= M.To AND A.Year >= M.From) ⋈ M ⋈ A ⋈ B

10.

Name
'Syd Barrett'

~~$\Pi_{M.Name}$ (~~

$\Pi_{M.Name}$ (B.M.BandId = 1 AND A.Title = 'Meddle' AND M.FROM >= A.Year OR ~~A.From~~ M.TO < A.Year) ⋈ M ⋈ A

11.

B.Name	A.Title	A.Title 2	Year
'Doors'	'The Doors'	'Strange Days'	1967

$\Pi_{B.Name,\ A.Title,\ Year}(A.Year = A.Year\ 3\ AND\ B.Id = A.BandID)$

B A

12.

Name
'Pink Floyd'
'King Crimson'
'Can'
'Poors'
'Gong'
'Yes'

$\Pi_{B.Name}(B.Id \neq 5)$

B

13.

A.Title	Year
'Meddle'	1970
'Animals'	1907
'The Doors'	1967
'Strange Days'	1967

$\Pi_{A.Title,\ Year}(M.To < 1972\ AND\ A.BandID = M.BandId)$

A M

14.

Title	Year
'Red'	1974

$\Pi_{A.Title,Year}(A.BandId = 2\ AND\ A.Year < M.From)$

A

$\Pi_{M}(M.Name = 'Adrian Belew')$

M

15.

Name
'Bill Bruford'

$\Pi_{M.Name}(M1.Name = M.Name\ AND\ M1.BandId \neq M.BandID)$

ρ_{M1} M

M