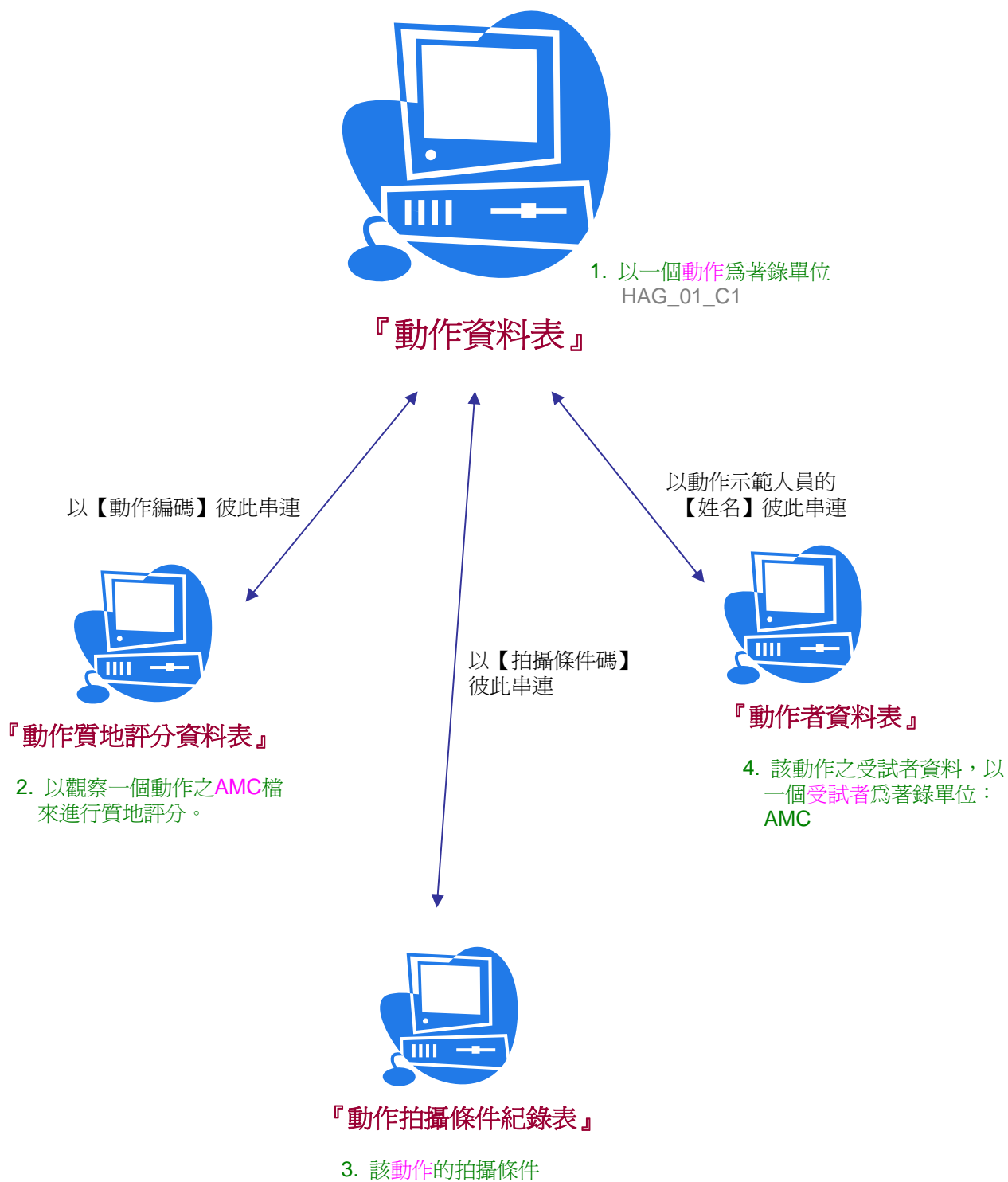


# 北藝大資料庫之後設資料架構規劃

## 一、資料庫架構



## 二、資料庫欄位

## (1) 動作資料表 (註：以一個動作檔案為一筆 metadata 的著錄單位)

後設資料欄位			代碼表或著錄規範		
Movement Index number			*Link to 「 Effort Evaluation Database 」		
Movement Name	English Name				
	Chinese Name				
Movement Class			Regular/Aesthetic/Dance/Physical/Animation/Test		
Design purpose					
Shooting Date					
Shooting Time					
Shooting Condition	Shooting Condition Number		*Link to 「 Shooting Condition Database 」		
	Frame Rate				
	Marker Size				
Related files	Type		TVD / C3D / WMV / MKR / AVI / ACQ		
	File Name				
Demonstrator	Name		*Link to 「 Demonstrator Database 」		
	Age				
Movement information	Shape	Shape Number			
		Frame	Start		
			End		
		Type		Static equilibrium / balance movement / off balance movement / Full body Extreme movement	
		Movement Segment	Movement Pattern		Hinge / Ball / S-curve / Spiral / Mixed (Hinge / Ball / S-curve / Spiral)
			Body Part		Head / Rib Cage / Hip / Left Arm / Right Arm / Left Hand / Right Hand / Left Leg / Right Leg / Left Foot / Right Foot
	Fixed End				
	Free End				
	Movement Direction				
	Level				
	Joint	Name			
		Motion			

Kinematics	Type		Stretch / Strength Training / Gymnastics / Vertical Jump
	Motion Name		
	Motion Stage		Preparation Stage / <b>Motion Stage I</b> / <b>Motion Stage II</b> / Stretching Stage
	Frame	Start	
		End	
	Body Alignment	Frontal	
		Sagittal	Degree
	Shoulder Posture	Type	RSHO U&D / RSHO F&B / LSHO U&D / LSHO F&B
		Degree	
	Stretch Angle	Type	Segment 1 / Segment 2
		Angle	
	Stretch Plane	Type	Segment 1 / Segment 2
		Angle	(X, Y, Z)
	Stretch Time		(sec)
	COG		(X, Y, Z)
	Support Position	Joint Name	
		Value	(X, Y, Z)
	Joint Displacement	Joint Name	
		Value	(mm)
	Joint Velocity	Joint Name	
Value		(mm/ sec)	
Joint acceleration	Joint Name		
	Value	(mm/ sec)	
Muscle EMG	Muscle Name		
	MVC		
	Raw EMG		
	%MVC		
Effort	Type		Action Drive / Laban / 地水火風
	<b>Name</b>		
	Value		
Record Information	Cataloger		
	Cataloging Date		

	Reviser	
	Revise Date	

## (2) 動作質地評分資料表 (註：以一個 FLV 或 AMC 檔案為一筆 metadata 的著錄單位)

後設資料欄位		代碼表或著錄規範
Movement Index number		*Link to 「Movement Database」
Date		
Evaluator		
Assess File	Type	
	Name	
Effort Evaluation	Type	Action Drive/Laban/地水火風
	Name	
	Value	
	Body part	Head/Rib Cage/Hip/Left Arm/Right Arm/Left Hand/Right Hand/Left Leg/Right Leg/Left Foot/Right Foot
	Frame	Start
End		
Emotion		

## (3) 動作拍攝條件紀錄表

後設資料欄位		代碼表或著錄規範	
Shooting Condition	Shooting Condition Number	*Link to 「Movement Database」	
	Start Date		
	Location		
	Capture Device	Device Name	
		Number of Cameras	
		Software	Name Version
	People in charge		
Record Information	Cataloger		
	Cataloging Date		
	Reviser		
	Revise Date		

## (4) 動作者資料表 (註：以一個個人檔案為一筆 metadata 的著錄單位)

後設資料欄位		代碼表或著錄規範	
Demonstrator		*Link to 「Movement Database」	
Gender			
Birth Date			
Institute			
Measurement Date			
Height			
Weight			
Status			
Bone Measurement	Left Hand	Thickness of Palm	
		Wrist	
		Elbow	
	Left Leg	thumb	
		Ankle	
		Foot	
		Knee	
Record Information	Cataloger		
	Cataloging Date		
	Reviser		
	Revise Date		

## 三、範例試填

## (1) 動作資料表 (註：以一個動作檔案為一筆 metadata 的著錄單位)

後設資料欄位			範例			
Movement Index number						
Movement Name	English Name					
	Chinese Name					
Movement Class						
Design purpose						
Shooting Date						
Shooting Time						
Shooting Condition	Shooting Condition Number					
	Frame Rate					
	Marker Size					
Related files	Type					
	File Name					
Demonstrator	Name					
	Age					
Movement information	Shape	Shape Number				
		Frame	Start			
			End			
		Type				
		Movement Segment	Movement Pattern			
			Body Part			
			Fixed End			
			Free End			
			Movement Direction			
		Level				
	Joint	Name				
		Motion				
	Kinematics	Type				
		Motion Name				
		Motion Stage				
Frame		Start				
		End				

		Body	Frontal	
		Alignme nt	Sagital	
		Shoulder	Type	
		Posture	Degree	
		Stretch	Type	
		Angle	Angle	
		Stretch	Type	
		Plane	Angle	
		Stretch Time		
		COG		
		Support	Joint Name	
		Position	Value	
		Joint	Joint Name	
		Displace ment	Value	
		Joint	Joint Name	
		Velocity	Value	
		Joint	Joint Name	
		accelerat ion	Value	
		Muscle EMG	Muscle Name	
			MVC	
			Raw EMG	
			%MVC	
Effort	Type			
	Name			
	Value			
Record Information	Cataloger			
	Cataloging Date			
	Reviser			
	Revise Date			

## (2) 動作質地評分資料表 (註：以一個 FLV 或 AMC 檔案為一筆 metadata 的著錄單位)

後設資料欄位	範例
Movement Index number	
Date	

Evaluator		
Assess File	Type	
	Name	
Effort Evaluation	Type	
	Name	
	Value	
	Body part	
	Frame	Start
	End	
Emotion		

## (3) 動作拍攝條件紀錄表

後設資料欄位		範例		
Shooting Condition	Shooting Condition Number			
	Start Date			
	Location			
	Capture Device	Device Name		
		Number of Cameras		
		Software	Name	
	Version			
People in charge				
Record Information	Cataloger			
	Cataloging Date			
	Reviser			
	Revise Date			

## (4) 動作者資料表 (註：以一個個人檔案為一筆 metadata 的著錄單位)

後設資料欄位	範例
Demonstrator	
Gender	
Birth Date	
Institute	
Measurement Date	
Height	
Weight	
Status	



Bone Measurement	Left Hand	Thickness of Palm	
		Wrist	
		Elbow	
	Left Leg	Thumb	
		Ankle	
		Foot	
		Knee	
Record Information	Cataloger		
	Cataloging Date		
	Reviser		
	Revise Date		

### 四、動作元素結構關係圖

