#### **Data Normalisation**

## 1. 3rd Normalisation for Learner Requirement Database

#### **Learner Table**

### LEARNER\_ID (Primary Key)

LEARNER\_FIRST\_NAME

LEARNER LAST NAME

LEANER\_OTHER\_NAMES

LEARNER\_TRAINING\_INTERESTS

SPECIFIC\_INTERESTS

#### COURSE CHOICE ID (Foreign Key)

DESCRIPTION\_OF\_INTEREST

EXISTING\_TRAINING

CURRENT\_EXPECTED\_JOB

#### **Course Choice Table**

COURSE\_CHOICE\_ID (Primary Key)

COURSE\_CHOICE\_TITLE

COURSE\_CHOICE\_DURATION

### 2. 3rd Normalisation for Provider Capability Database

#### **Provider Table**

PROVIDER\_ID (Primary Key)

PROVIDER NAME

COURSE\_ID (Foreign Key)

#### **Course Table**

#### **COURSE ID (Primary Key)**

**COURSE TITLE** 

SUBJECT DOMAIN

**COURSE DURATION** 

**COURSE START DATE** 

COURSE END DATE

COURSE\_COST

COURSE\_REQUIREMENTS

COURSE INFO ID (Foreign Key)

#### **Course Info Table**

## COURSE\_INFO\_ID (Primary Key)

NEGOTIABLE COURSE DURATION

COURSE\_DELIVERY\_METHOD

COURSE PLACEMENT OPTION

**COURSE CONTENT SUMMARY** 

COURSE ACCREDITATION LEVEL

COURSE\_ASSESMENT\_METHOD

CERT\_PROG\_ROUTE

**COURSE OBIECTIVES** 

COURSE\_BENEFITS

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### **Tutor Login Table**

TUTOR\_LOGIN\_ID

TUTOR ID

TUTOR\_FIRST\_NAME TUTOR\_LAST\_NAME TUTOR\_USERNAME TUTOR\_PASSWORD

### **Learner Login**

LEARNER\_LOGIN\_ID

LEARNER\_ID

LEARNER\_FIRST\_NAME LEARNER\_LAST\_NAME LEARNER\_USERNAME LEARNER\_PASSWORD

### **Tutor Table**

TUTOR\_ID

TUTOR\_FIRST\_NAME
TUTOR\_LAST\_NAME
TUTOR\_DEGREE
TUTOR\_OFFICE\_HOURS
TUTOR\_COURSE\_TAUGHT

#### **Person Table**

PERSON\_ID

PERSON\_FIRST\_NAME PERSON\_LAST\_NAME

TUTOR\_ID

LEARNER ID

COURSE\_ID

### **Data Dictionaries**

### 1. Data Dictionaries for Learner Requirement Database

#### 1. Learner Table

Attribute Name	Key	FK Table	Data	Lengt	Constrain
	Туре		Туре	h	t
LEARNER ID	PK		INTEGE	6	NOT
			R		NULL,
					PRIMARY
					KEY
LEARNER_FIRST_NAME			VARCH	35	NOT
			AR		NULL
LEARNER_LAST_NAME			VARCH	35	NOT
			AR		NULL
LEANER_OTHER_NAMES			VARCH	35	
			AR		

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LEARNER_TRAINING_INT ERESTS			VARCH AR	255	
SPECIFIC_INTERESTS			VARCH	255	NOT
			AR		NULL
COURSE_CHOICE_ID	FK	COURSE_CH	INTEGE	6	NOT
		OICE	R		NULL,
					FOREIGN
					KEY
DESCRIPTION_OF_INTER			VARCH	355	NOT
EST			AR		NULL
EXISTING_TRAINING			VARCH	1	CHECK
			AR		
CURRENT_EXPECTED_JO			VARCH	255	
В			AR		

# 2. Course Choice Table

Attribute Name	Key	FK	Data Type	Length	Constraint
	Туре	Table			
COURSE_CHOICE_ID	PK		INTEGER	6	NOT
					NULL,
					PRIMARY
					KEY
COURSE_TITLE			VARCHAR	100	
COURSE_DURATION			VARCHAR	100	

# 2. Data Dictionaries for Provider Capability Database

# 1. Provider Table

Attribute Name	Key Typ e	FK Table	Data Type	Lengt h	Constrain t
PROVIDER_ID	PK		INTEGER	6	NOT NULL, PRIMARY KEY
PROVIDER_FIRST_NAME			VARCHAR	35	NOT NULL
COURSE_ID	FK	COURS E	INTEGER	6	NOT NULL
PROVIDER_LAST_NAME			VARCHA R	35	NOT NULL
PROVIDER_DEGREE			VARCHA R	50	NOT NULL
PROVIDER_OFFICE_HOURS			INTEGER	10	NOT NULL
PROVIDER_COURSE_TAUGH			VARCHA	50	NOT

_			
Т		R	MHH
■		11	NULL

# 2. Course Table

Attribute Name	Key Type	FK Table	Data Type	Length	Constraint
COURSE_ID	PK		INTE GER	6	NOT NULL, PRIMARY KEY
COURSE_TITLE			VARC HAR	100	NOT NULL
SUBJECT_DOMAIN			VARC HAR	75	
COURSE_DURATION			VARC HAR	100	NOT NULL
COURSE_START_DATE			DATE	9	NOT NULL
COURSE_END_DATE			DATE	9	NOT NULL
COURSE_COST			DOUB L	4,2	NOT NULL
COURSE_REQUIREMEN TS			VARC HAR	500	NOT NULL
COURSE_INFO_ID	FK	COUR SE_IN FO	INTE GER	6	NOT NULL, FOREIGN KEY

# 3. Course Info Table

Attribute Name	Key Type	FK Table	Data Type	Length	Constraint
COURSE_INFO_ID	PK		INTE GER	6	NOT NULL, PRIMARY KEY
NEGOTIABLE_COURSE_ DURATION			VARC HAR	100	
COURSE_DELIVERY_ME THOD			VARC HAR	255	
COURSE_PLACEMENT_O PTION			VARC HAR	1	СНЕСК
COURSE_CONTENT_SU MMARY			VARC HAR	355	
COURSE_ACCREDITATI ON_LEVEL			VARC HAR	100	
COURSE_ASSESMENT_M ETHOD			VARC HAR	255	
CERT_PROG_ROUTE			VARC HAR	255	
COURSE_OBJECTIVES			VARC HAR	355	
COURSE_BENEFITS			VARC	355	

	HAR	

# 4. Provider Login Table

Attribute Name	Key Type	FK Table	Data Type	Length	Constraint
PROVIDER_LOGIN_ID	PK		INTEGER	6	NOT NULL, PRIMARY KEY
PROVIDER_ID	FK	PROVIDER	VARCHAR	35	NOT NULL, FOREIGN KEY
PROVIDER_FIRST_NAME			VARCHAR	35	NOT NULL
PROVIDER_LAST_NAME			VARCHAR	35	NOT NULL
PROVIDER_USERNAME			VARCHAR	16	NOT NULL
PROVIDER_PASSWORD			VARCHAR	18	NOT NULL

# 5. Learner Login Table

Attribute Name	Key Type	FK Table	Data Type	Length	Constraint
LEARNER_LOGIN_ID	PK		INTEGER	6	NOT NULL, PRIMARY KEY
LEARNER_ID	FK	LEARNER	VARCHAR	35	NOT NULL, FOREIGN KEY
LEARNER _FIRST_NAME			VARCHAR	35	NOT NULL
LEARNER _LAST_NAME			VARCHAR	35	NOT NULL
LEARNER _USERNAME			VARCHAR	16	NOT NULL
LEARNER _PASSWORD			VARCHAR	18	NOT NULL

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# 6. Person Table

Attribute Name	Key Type	FK Table	Data Type	Lengt h	Constraint
PERSON_ID	PK		INTEGER	6	NOT NULL, PRIMARY KEY
PERSON_FIRST_NAME			VARCHAR	20	
PERSON_LAST_NAME			VARCHAR	50	
PROVIDER_ID	FK	PROVID ERS	VARCHAR	50	NOT NULL, CHECK, FOREIGN KEY
LEARNER_ID	FK	LEARNE RS	VARCHAR	35	NOT NULL, CHECK, FOREIGN KEY
COURSE_ID	FK	COURSE S	VARCHAR	35	NOT NULL,, FOREIGN KEY