Database Systems Development M30232

CW2

Group 19

UP2206270, UP2118085, UP2160428

Contribution Description

UP NUMBER	Description (if not equally counted)	Signature
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Data Dictionary

			students		
Attribute_Name	KEY	Data Type & Size	Domains & Constraints	FK Reference	Description
stut_id	PK	SERIAL			
course_id	FK	INT	NOT NULL	courses.course_id	
stu_first_name		VARCHAR(50)	NOT NULL		
stu_last_name		VARCHAR(50)	NOT NULL		
stut_email		VARCHAR(150)	NOT NULL		
stu_phone_numb er		VARCHAR(15)	NOT NULL		
stu_country		VARCHAR(60)	NOT NULL		
stu_addr1		VARCHAR(50)	NOT NULL		
stu_addr2		VARCHAR(50)			
stu_ciity		VARCHAR(80)	NOT NULL		
stu_postcode		CHAR(8)	NOT NULL		
stu_enroll_date		DATE	NOT NULL		

	courses							
Attribute_Name	KEY	Data Type & Size	Domains & Constraints	FK Reference	Description			
course_id	PK	SERIAL						
departments_id	FK	INT	NOT NULL	departments.dept_id				
course_name		VARCHAR(50)	NOT NULL					
academic_level		ENUM			Data allowed: Level 4, Level 5, Level 6 and Level 7			

module_course							
Attribute_Na me	KEY	Data Type & Size	Domains & Constraints	FK Reference	Description		
module_id	PK/FK	INT	NOT NULL	modules.module_id			
course_id	PK/FK	INT	NOT NULL	courses.course_id			

modules							
Attribute_Name	KEY	Data Type & Size	Domains & Constraints	FK Reference	Description		
module_id	PK	SERIAL					
module_name		VARCHAR(50)	NOT NULL				

	modules_grades							
Attribute_Nam e	KEY	Data Type & Size	Domains & Constraints	FK Reference	Description			
module_id	PK/FK	INT	NOT NULL	modules.module_id				
stu_id	PK/FK	INT	NOT NULL	students.stu_id				
cw_id	PK	INT	NOT NULL					
grade		DECIMAL(5,2)						

	departments							
Attribute_Nam e	KEY	Data Type & Size	Domains & Constraints	FK Reference	Description			
departments_id	PK	SERIAL						
dept_name		VARCHAR(50)	NOT NULL					
dept_type		ENUM	NOT NULL					
dept_addr1		VARCHAR(50)	NOT NULL					
dept_addr2		VARCHAR(50)						
dept_building		VARCHAR(60)	NOT NULL					
dept_postcode		CHAR(8)	NOT NULL					

	Staff_member							
Attribute_Name	KEY	Data Type & Size	Domains & Constraints	FK Reference	Description			
staff_id	PK	SERIAL						
departments_id	FK	INT	NOT NULL	departments.dept_i				
staff_first_name		VARCHAR(50	NOT NULL					
staff_last_name		VARCHAR(50	NOT NULL					
staff_email		VARCHAR(15 0)	NOT NULL					
staff_phone_num ber		VARCHAR(15	NOT NULL					

	Staff_roles							
Attribute_N ame	KEY	Data Type & Size	Domains & Constraints	FK Reference	Description			
role_id	PK/FK	INT	NOT NULL	roles.role_id				
staff_id	PK\FK	INT	NOT NULL	staff_member.st aff_id				

roles							
Attribute_Name	KEY	Data Type & Size	Domains & Constraints	FK Reference	Description		
role_id	PK	SERIAL					
role_name		VARCHAR(50)	NOT NULL				

teachers_session							
Attribute_Name KEY Data Type & Size Domains Size Constraints				FK Reference	Description		
staff_id	PK\FK	INT	NOT NULL	staff_member.staff_id			
session_id	PK\FK	INT	NOT NULL	sessions.session_id			

			sessions		
Attribute_Name	KEY	Data Type & Size	Domains & Constraints	FK Reference	Description
session_id	PK	SERIAL			
module_id	FK	INT	NOT NULL	modules.module_id	
sesssion_date		DATE	NOT NULL		
session_time		TIME	NOT NULL		
session_addr1		VARCHAR(50)	NOT NULL		
session_addr2		VARCHAR(50)			

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session_builing	VARCHAR(50)	NOT NULL	
session_postcode	CHAR(8)	NOT NULL	

Attendances						
Attribute_Name	KEY	Data Type & Size	Domains & Constraints	FK Reference	Description	
stut_id	PK\FK	INT	NOT NULL	students.stu_id		
session_id	PK\FK	INT	NOT NULL	sessions.session_id		
attendance		BOOLEAN	NOT NULL			

Assumptions

Tables	Assumption
Departments	The department table consists of all the staff members in the department with the data peculiar to them. The departments have enum data type because we only want to allow the users to select from the options we have provided
Staff Member	A staff member can have one or multiple roles at the same time. For example, a staff member can be a head teacher and a programming teacher at the same time.
Courses	A course can have one or multiple students. For example, programming can be taken by just one and multiple students. The courses have enum data type because we only want to allow the users to select from the options we have provided
Sessions	TIME is used because we only wanted to

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	store the time of the day the session will take place.
	Multiple students can have multiple sessions thus we use an intersection table to make that possible.
Student/Teacher session	Students and teachers don't always have a session.





