
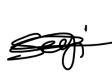



Database Systems Development

M30232

CW Group contribution statement

	UP2197433	UP2199991	UP2198852
ERD Design	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Assumptions	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Data Dictionary	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Document writing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Brainstorming	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Percentage Allocation	33.3%	33.3%	33.3%
Signature			

Contribution Description

UP NUMBER	Description (if not equally counted)	Signature
UP2197433		
UP2199991		
UP2198852		

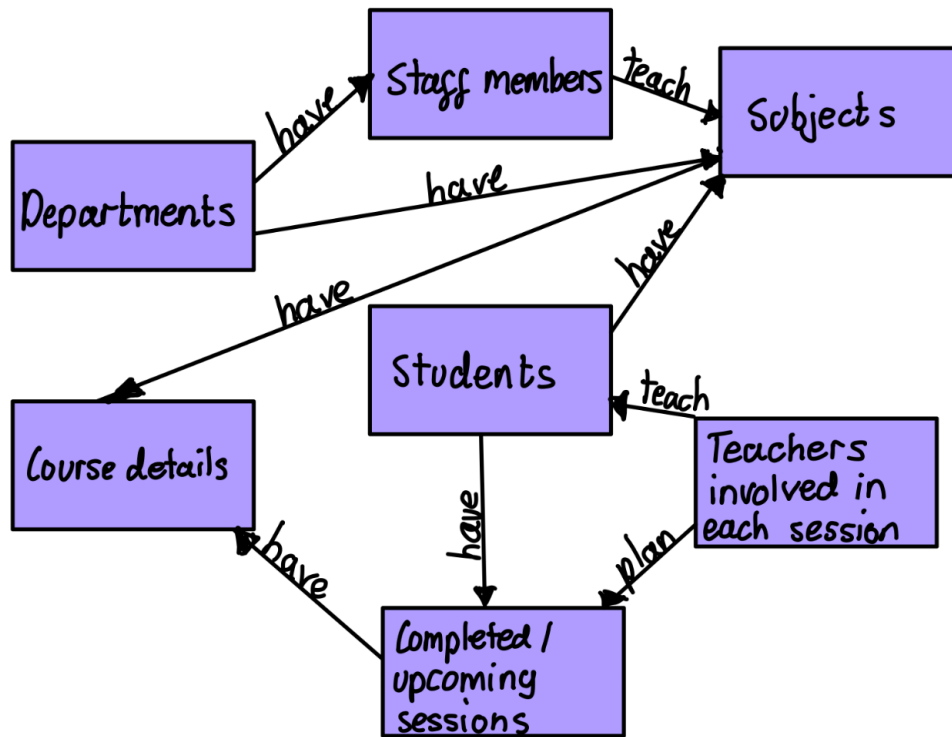
Note¹: The contribution is not necessary only "hands on". The contribution can be as research, brainstorming, tests, diagrams etc. For DOCUMENT WRITING one person should write (to maintain the same writing style and general layout) but all members should contribute with ideas, moderation or research.

Note²: The Percentage Allocation between team members cannot exceed 100%.

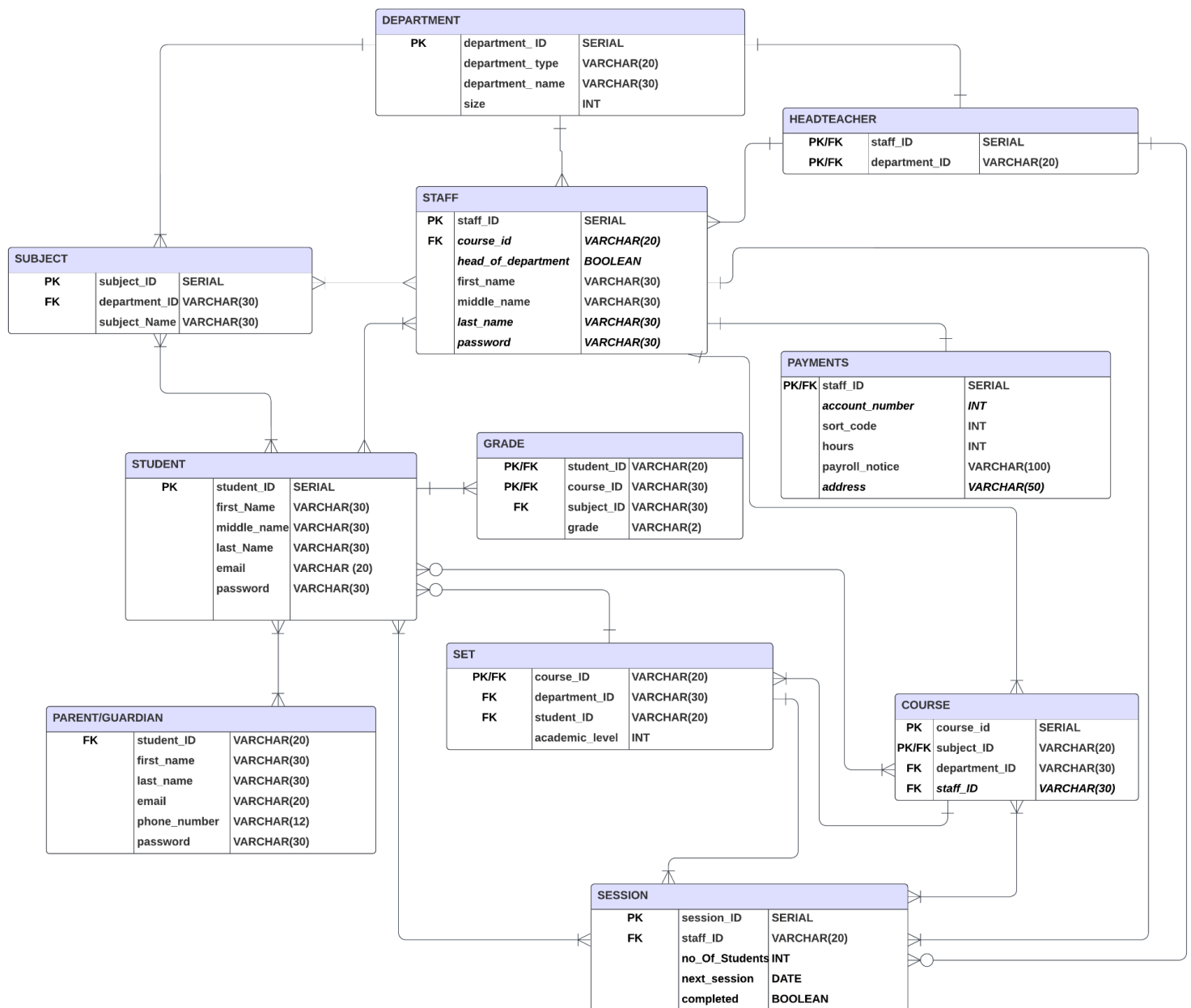
Note³: For submission without Group Contribution Statement (or blank) it will be considered that all members are contributed equally.

Note⁴: In case of an EC application only the member applying for EC will receive the extension and NOT ALL GROUP. Ask about EC process.

Entities diagram:



Entities Relationship Diagram (ERD):



Assumptions:

- One staff member **only** teaches from **one** department.
- A course has **multiple** sessions.
- **Only one** member of staff teaches a class.
- A session is **only** taught by **one** staff member.
- There's **never just one** student in a class.
- If there's **never just one** student in a class, then there's **never just one** student in a set.
- Out of the 5 staff members, there's **only one** teaching a session at a time.
- **A** staff member is **only** attached to **one** department.
- **Every** student gets a grade.
- **Every** student has at least **one session**.
- There is **more than one** subject in each department.
- The headteacher **wouldn't only teach one** session **if they had to** teach a session.
- Staff will **always** have **more than one** student.
- The department **never has less than 2** members of staff.
- The username that students will use to log into the online service is **the same** as their student ID.
- Passwords are **less than 30 characters**.
- *Stellar Tutors Inc* received money from the government the students aren't paying, therefore there's no need for a 'payments' entity.
- The name on the card is the **same** name attached to the staff ID.
- The parent's phone number **will also** be used as the student's emergency contact.

Dictionary

DEPARTMENT					
<i>Attribute_Name</i>	<i>KEY</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
department_id	PK	SERIAL			
department_type		VARCHAR(20)	NOT NULL		Type of department this will help differentiate between HR, Finance and subject
department_name		VARCHAR(30)	NOT NULL		
size		INT	NOT NULL		Size of the department in terms of staff.

SUBJECT					
<i>Attribute_Name</i>	<i>KEY</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
subject_id	PK	SERIAL			
department_id	FK	VARCHAR(30)	NOT NULL	DEPARTMENT	
subject_name		VARCHAR(30)	NOT NULL		

STUDENT					
<i>Attribute_Name</i>	<i>KEY</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
student_id	PK	SERIAL			
first_name		VARCHAR(30)	NOT NULL		
middle_name		VARCHAR(30)			
last_name		VARCHAR(30)	NOT NULL		
email		VARCHAR(20)	NOT NULL		School-assigned email address
password		VARCHAR(30)	NOT NULL		password for individual student

PARENT/GUARDIAN					
<i>Attribute_Name</i>	<i>KEY</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
student_id	PK/FK	VARCHAR(20)		STUDENT	The student ID of the child that they have enrolled in the school
first_name		VARCHAR(30)	NOT NULL		
last_name		VARCHAR(30)	NOT NULL		
email		VARCHAR(20)	NOT NULL		
phone_number		VARCHAR(12)	NOT NULL		
password		VARCHAR(30)	NOT NULL		For the parent view. They can track the progress of their child on there.

STAFF					
<i>Attribute_Name</i>	<i>KEY</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
staff_id	PK	SERIAL			
course_id	FK	VARCHAR(20)	NOT NULL	COURSE	
head_of_department		BOOLEAN	NOT NULL		To confirm whether the staff member is a department head.
first_name		VARCHAR(30)	NOT NULL		
middle_name		VARCHAR(30)			
last_name		VARCHAR(30)	NOT NULL		
password		VARCHAR(30)	NOT NULL		Individual staff password

HEADTEACHER					
<i>Attribute_Name</i>	<i>KEY</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
staff_id	PK	SERIAL			
department_id	PK/FK	VARCHAR(20)	NOT NULL	DEPARTMENT	

COURSE					
<i>Attribute_Name</i>	<i>KEY</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
course_id	PK	SERIAL	NOT NULL		
subject_id	PK/FK	VARCHAR(20)	NOT NULL	SUBJECT	
department_id	FK	VARCHAR(30)	NOT NULL	DEPARTMENT	
staff_id	FK	VARCHAR(30)	NOT NULL	STAFF	

GRADE					
<i>Attribute_Name</i>	<i>KEY</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
student_id	PK/FK	VARCHAR(20)	NOT NULL	STUDENT	
course_id	PK/FK	VARCHAR(30)	NOT NULL	COURSE	
subject_id	FK	VARCHAR(30)	NOT NULL	SUBJECT	
grade		VARCHAR(2)			

SESSION					
<i>Attribute_Name</i>	<i>KEY</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
session_id	PK	SERIAL			
staff_id	FK	VARCHAR(20)	NOT NULL	STAFF	
no_of_students		INT	NOT NULL		
next_session		DATE			
completed		BOOLEAN	NOT NULL		

SET					
<i>Attribute_Name</i>	<i>KEY</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
course_id	PK/FK	VARCHAR(20)		COURSE	
department_id	FK	VARCHAR(30)	NOT NULL	DEPARTMENT	
student_id	FK	VARCHAR(20)	NOT NULL	STUDENT	
academic_level		INT	NOT NULL		

PAYMENT					
<i>Attribute_Name</i>	<i>KEY</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
staff_ID	PK/FK	VARCHAR(20)		STAFF	
account_number		INT	NOT NULL		Bank account number
sort_code		INT	NOT NULL		
hours		INT	NOT NULL		The number of hours they have worked
payroll_notice		VARCHAR(100)			
address		VARCHAR(50)	NOT NULL		The staff member's address