

Data Dictionary

COUNTRIES						
<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
country_id	PK		SERIAL			
country_name			VARCHAR(50)			The name of the country

Cities						
<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
city_id	PK		SERIAL			
country_id	FK		INT		country.country_id	The country associated with the city.
city_name			VARCHAR(50)			The name of the city.

STUDENTS						
<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>

student_id	PK		SERIAL			
course_id	FK		INT		courses.course_id	The course associated with the student(s).
branch_id	FK		VARCHAR(50)	NOT NULL	branches.branch_id	The branch associated with the student.
accommodation_id	FK		INT		accommodations.accommodation_id	The accommodation associated with the student.
tutor_id	FK		INT	NOT NULL	staff_members.staff_id	The student's tutor.
course_rep			BOOLEAN	NOT NULL		The student's course rep.
address_id	FK		INT	NOT NULL	addresses.address_id	The student's address.
student_first_name			VARCHAR(50)	NOT NULL		The student's first name.
student_middle_name			VARCHAR(50)			The student's middle name.
student_last_name			VARCHAR(50)	NOT NULL		The student's last name.
student_org_email	AK		VARCHAR(50)	NOT NULL; UNIQUE;		The student's org email address.
student_phone_number	AK		VARCHAR(15)	NOT NULL; UNIQUE; CHECK (LENGTH(student_phone_number) > 1)		The student's phone number.
student_personal_email	AK		VARCHAR(50)	NOT NULL; UNIQUE;		The student's personal email address.
student_academic_level			ENUM(academic_levels)	NOT NULL		ENUM value-"L4", "L5", "L6", "L7"

SPECIAL_REQUESTS

<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
special_request_id	PK		SERIAL			
special_request_name	AK		VARCHAR(50)	NOT NULL; UNIQUE		The special request's name.

STUDENTS_SPECIAL_REQUESTS						
<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
special_request_id	PK/FK		INT	NOT NULL	special_requests.special_request_id	
student_id	PK/FK		INT	NOT NULL	student.student_id	The student associated with the special requests.

COURSES						
<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
course_id	PK		SERIAL			
department_id	FK		INT	NOT NULL	departments.department_id	Department associated with the course.
course_name		Y	VARCHAR(50)	NOT NULL; UNIQUE		The course's name.
course_description			TEXT			Course description.

BRANCHES						
<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
branch_id	PK		SERIAL			
city_id	FK		INT		cities.city_id	City associated with the branch.
branch_name			VARCHAR(50)	NOT NULL		Branch name.
branch_capacity			INT			Branch capacity.

ASSESSMENTS						
<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
assessment_id	PK		INT			
module_id	FK		INT	NOT NULL	modules.module_id	The module associated with the assessment.
student_id	FK		INT	NOT NULL	students.student_id	The student(s) associated with the assessment.
assessment_type			ENUM(assessment_type)	NOT NULL		ENUM values "Coursework", "Exam"
assessment_date			DATE	NOT NULL; CHECK (assessment_date > CURRENT_DATE)		The assessment's date.
assessment_late_date			TIME	NOT NULL ;CHECK (assessment_late_date > CURRENT_DATE)		The assessment's late date.
assessment_time			TIME	NOT NULL; CHECK (assessment_time BETWEEN '09:00:00'		The assessment's time.

				AND '18:00:00')		
assessment_late_time			TIME	NOT NULL; CHECK (assessment_late_time BETWEEN '09:00:00' AND '18:00:00')		The assessment's late time.
assessment_mark		Y	DECIMAL(5,2)	NOT NULL; CHECK(assessment_mark BETWEEN 0 AND 100)		The assessment's mark.
assessment_weight			DECIMAL(5,2)	NOT NULL		The assessment's weighting.
assessment_ontime			BOOLEAN	NOT NULL		If the assessment was completed on time.
assessment_feedback			TEXT			The assessment's feedback.

EVENTS						
<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
event_id	PK		SERIAL			
course_id	FK		INT	NOT NULL	course.course_id	The course is associated with the event.
event_name			VARCHAR(50)	NOT NULL		Name of the online event.
event_date			DATE	NOT NULL; CHECK (event_date > CURRENT_DATE)		Date of the online event.
event_time			TIME	NOT NULL; CHECK (event_time BETWEEN '09:00:00' AND '18:00:00')		Time of the online event.

APPOINTMENTS						
<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
appointment_id	PK		SERIAL			
staff_id	FK		INT	NOT NULL	staff_members.staff_id	The staff member associated with the appointment.
student_id	FK		INT	NOT NULL	student.student_id	The student associated with the appointment.
appointment_time			TIME	NOT NULL; CHECK (appointment_time BETWEEN '09:00:00' AND '18:00:00')		The time of the appointment.
appointment_date			DATE	NOT NULL; CHECK (appointment_date > CURRENT_DATE)		The date of the appointment.
appointment_type			ENUM (appointment_types)	NOT NULL		ENUM values- “Academic tutor”, “Well-being support”, “Career support”, “Online career support”, “Placement support”

STAFF_MEMBERS						
<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
staff_id	PK		SERIAL			
address_id	FK		INT	NOT NULL	addresses.address_id	The staff member's address.
branch_id	FK		INT	NOT NULL	branches.branch_id	The branch associated with the staff member.

department_id	FK		INT	NOT NULL	departments.department_id	The department associated with the staff member.
staff_first_name			VARCHAR(50)	NOT NULL		The staff member's first name.
staff_middle_name			VARCHAR(50)			The staff member's middle name.
staff_surname			VARCHAR(50)	NOT NULL		The staff member's surname.
staff_phone_number	AK		VARCHAR(15)	NOT NULL; UNIQUE; CHECK (LENGTH(staff_phone_number) > 1)		The staff member's phone number.
staff_org_email	AK		VARCHAR(50)	NOT NULL; UNIQUE		The staff member's org email address.

STAFF_ROLES						
<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
staff_role_id	PK		SERIAL			
staff_role_name	AK		VARCHAR(50)	NOT NULL; UNIQUE		The name of the role.
staff_role_support			BOOLEAN			What support the role provides.

STAFF_MEMBERS_STAFF_ROLES						
<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
staff_id	PK/FK		INT	NOT NULL	staff_members.staff_id	The staff member associated with the role.
staff_role_id	PK/FK		INT	NOT NULL	staff_roles.staff_role_id	The role associated with the staff member.

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TEAMS						
<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
team_id	PK		SERIAL			
team_name			VARCHAR(50)	NOT NULL		The name of the team(s).

STAFF_TEAMS						
<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
team_id	PK/FK		INT	NOT NULL	teams.team_id	
staff_id	PK/FK		INT	NOT NULL	staff_members.staff_id	The staff member is a part of the team.

DEPARTMENTS						
<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
department_id	PK		SERIAL			
department_type			ENUM(department_types)	NOT NULL		ENUM values - "Academic", "Non-academic"
department_name			VARCHAR(50)	NOT NULL		Name of the department. 'Mathematics', 'Humanities', 'Computing', 'Arts'

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TEACHING_SESSIONS						
<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
session_id	PK		SERIAL			
module_id	FK		INT	NOT NULL	modules.module_id	The module associated with the teaching session.
room_id	FK		INT		rooms.room_id	Could be NULL if the session is online
session_type_name			ENUM(session_type_names)	NOT NULL		Name of the type of session. ENUM values: 'Practical', 'Lecture', 'Online drop-in', 'Tutorial'
session_date			DATE	NOT NULL; CHECK (session_date > CURRENT_DATE)		Date of the session.
session_start_time			TIME	NOT NULL; CHECK (session_time BETWEEN '09:00:00' AND '18:00:00')		Start time of the session.
session_end_time			TIME	NOT NULL; CHECK (session_time BETWEEN '09:00:00' AND '18:00:00')		End time of the session.

STUDENT_TEACHING_SESSIONS						
<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
student_id	PK/FK		INT	NOT NULL	students.student_id	Student(s) associated with the teaching session.

session_id	PK/FK		INT	NOT NULL	teaching_sessions.session_id	
student_attended		Y	BOOLEAN	NOT NULL		Which student(s) attended the teaching session.
last_updated			TIMESTAMP			The most recent update.

STAFF_TEACHING_SESSIONS						
<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
staff_id	PK/FK		INT	NOT NULL	staff_members.staff_id	Staff member associated with the teaching session.
session_id	PK/FK		INT	NOT NULL	teaching_sessions.session-id	The session associated with the teaching session.

MODULES						
<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
module_id	PK		SERIAL			
module_name	AK		VARCHAR(50)	NOT NULL;UNIQUE;		The module's name.
module_description			VARCHAR(200)	NOT NULL		Module description.
module_level			ENUM(academic_levels)	NOT NULL		The academic level of the module ENUM values: 'L4','L5','L6','L7'

STAFF_MODULE						
<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
staff_id	PK/FK		INT		staff_members.staff_id	Staff member(s) associated with the module.
module_id	PK/FK		INT		modules.module_id	The associated module.

MODULE_COURSE						
<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
module_id	PK/FK		INT	NOT NULL	modules.module_id	The associated module.
course_id	PK/FK		INT	NOT NULL	course.course_id	The associated course.

ADDRESSES						
<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
address_id	PK		SERIAL			
city_id	FK		INT	NOT NULL	cities.city_id	The associated city.
address_first_line			VARCHAR(50)			Address's first line.
address_second_line			VARCHAR(50)			Address's second line.
address_city			VARCHAR(60)			Address's city.
address_postcode			VARCHAR(10)			Address's Postcode.

ACCOMMODATIONS						
<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
accomodation_id	PK		SERIAL			
address_id	FK		INT	NOT NULL	addresses.address_id	The associated address.
accomodation_name			VARCHAR(50)			Accommodation name.

STUDENTS_EMERGENCY_CONTACTS						
<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
emergency_contact_id	FK		INT	NOT NULL	emergency_contacts.emergency_contact_id	
student_id	FK		INT	NOT NULL	students.student_id	The associated student.

EMERGENCY_CONTACTS						
<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
emergency_contact_id	PK		SERIAL			
address_id	FK		INT	NOT NULL	addresses.address_id	Emergency contact's address.

emergency_contact_first_name			VARCHAR(50)			Emergency contact's first name.
emergency_contact_middle_name			VARCHAR(50)			Emergency contact's middle name.
emergency_contact_last_name			VARCHAR(50)			Emergency contact's surname.
emergency_contact_phone_number			VARCHAR(15)	NOT NULL; UNIQUE		Emergency contact's phone number.
emergency_contact_email			VARCHAR(50)	NOT NULL; UNIQUE		Emergency contact's email address.

EXTENUATING_CIRCUMSTANCES						
<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
ec_id	PK		SERIAL			
student_id	FK		INT	NOT NULL; UNIQUE	students.student_id	Associated student.
ec_date	AK		DATE	NOT NULL; UNIQUE		EC Date.
reason	AK		TEXT	NOT NULL		Reasoning for EC.
module_ids	AK		INT			

ROOMS						
<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
room_id	PK		SERIAL			

building_id	FK		INT		buildings.building_id	Associated building.
room_number			DECIMAL(4,2)			The room's number.
room_capacity			INT			Room capacity.
room_types			ENUM(room_types)	NOT NULL		ENUM values - "Comp-Lab", "Sci-Lab", "Lecture", "Toilet", "Kitchen", "Storage", "Other".

ROOMS_FACILITIES						
<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
room_id	FK		INT	NOT NULL	rooms.room_id	Associated room.
facility_id	FK		INT	NOT NULL	facilities.facility_id	Associated facility.

FACILITIES						
<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>
facility_id	PK		SERIAL			
facility_name			VARCHAR(50)	NOT NULL		Facility name.

BUILDINGS						
<i>Attribute_Name</i>	<i>KEY</i>	<i>INDEX</i>	<i>Data Type & Size</i>	<i>Domains & Constraints</i>	<i>FK Reference</i>	<i>Description</i>

				<i>Constraints</i>		
building_id	PK		SERIAL			
branch_id	FK		INT		branches.branch_id	Associated branch.
building_name			VARCHAR(50)			Building's name.
building_room_count			INT			Building's room count.