

UNIT & LECTURER Forms

UNITS CURRENTLY APPROVED			REPORT DATE: 22/07/2022
Unit Number	Unit Name	Unit Description	Unit Value
FIT9131	Programming Foundations	Introduction to programming	6
FIT9132	Introduction to Databases	Database Fundamentals	6
FIT9134	Computer Architecture and Operating Systems	Fundamentals of computer systems and the computing environment	6
FIT9135	Data Communications	Fundamentals of data and computer communications	6

* Unit value may be either 3, 6 or 12 points

LECTURER DETAILS		REPORT DATE: 22/07/2022
LECTURER'S NUMBER: 10234 LECTURER'S NAME: GUISEPPE BLOGGS LECTURER'S OFFICE No.: 169 LECTURER'S PHONE No.: 99037111		
UNIT ADVISER FOR:		
UNIT NUMBER	UNIT NAME	
FIT9131	Programming Foundations	
FIT9134	Computer Architecture and Operating Systems	

* A given unit may have several advisers

* Some lecturers share offices, although each has their own phone

To add a student, the lecturer who advises that student must already exist in the database. No lecturer who advises any students may be deleted from the database. If the lecturer number of a lecturer is changed, then the number would be changed for each student advised by that lecturer.

UNIT Form

UNF

UNIT (unit_no, unit_name, unit_description, unit_value)

1NF

UNIT (unit_no, unit_name, unit_description, unit_value)

CK:

- (unit_no)
- (unit_no, unit_name)
- (unit_no, unit_description)
- (unit_no, unit_value)

Partial Dependencies:

None

2NF

UNIT (unit_no, unit_name, unit_description, unit_value)

Transitive Dependencies:

None: No Transitive Dependencies

3NF

UNIT (unit_no, unit_name, unit_description, unit_value)

Full Dependencies:

unit_no → unit_name, unit_description, unit_value

LECTURER Form

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UNF

LECTURER (lect_no, lect_name, lect_office_no, lect_phone_no, (unit_no, unit_name))

1NF

LECTURER (lect_no, lect_name, lect_office_no, lec_phone_no)

ADVICE (lect_no, unit_no, unit_name)

CK:

LECTURER:

- lect_no
- lect_phone_no

ADVICE:

- lect_no
- unit_no

Patial Dependencies:

unit_no → unit_name

2NF

LECTURER (lect_no, lect_name, lect_office_no, lect_phone_no)

ADVICE (lect_no, unit_no)

UNIT(unit_no, unit_name)

Transitive dependencies:

None

Note: lec_phone_no is a candidate key and is a key, not a non-key attribute, even though we have not chosen it as a primary key.

3NF

LECTURER (lect_no, lect_name, lect_office_no, lect_phone_no)

ADVICE (lect_no, unit_no)

UNIT (unit_no, unit_name)

Full Dependencies:

lect_no → lect_name, lect_office_no, lect_phone_no

unit_no → unit_name

STUDENT Form

STUDENT DETAILS			REPORT DATE: 22/07/2022
STUDENT No.: 12345678 STUDENT NAME: Poindexter Jones STUDENT ADDRESS: 23 Wide Road, Caulfield, 3162 COURSE ENROLLED: MIT MODE OF STUDY: On-Campus MENTOR NUMBER: 10234 MENTOR NAME: Guiseppe Bloggs ACADEMIC RECORD:			
UNIT NUMBER	UNIT NAME	YEAR / SEMESTER	GRADE
FIT9131	Programming Foundations	2021/2	N
FIT9131	Programming Foundations	2022/1	D
FIT9132	Introduction to Databases	2022/1	D

* Grade may have the value N, P, C, D or HD

* Mode of Study must be On-campus (O) or Distance Education (D)

UNF

STUDENT (student_no, student_name, student_address, student_course_erolled, student_mode_of_study, student_mentor_no, student_mentor_name, (student_unit_no, student_unit_name, (student_unit_year, student_unit_semester), student_unit_grade))

1NF

STUDENT (student_no, student_name, student_address, student_course_erolled, student_mode_of_study, mentor_no, mentor_name)

ENROLMENT (unit_no, student_no, unit_name, enrol_year, enrol_semester, unit_grade)

CKs:

STUDENT

- student_no

ENROLMENT

- unit_no, student_no, enrol_year, enrol_semester

Partial Dependencies:

unit_no → unit_name

2NF

STUDENT (student_no, student_name, student_address, student_course_erolled, student_mode_of_study, mentor_no, mentor_name)

ENROLMENT (unit_no, student_no, enrol_year, enrol_semester, unit_grade)

UNIT (unit_no, unit_name)

Transitive dependencies:

mentor_no → mentor_name

3NF

STUDENT (student_no, student_name, student_address, student_course_erolled, student_mode_of_study, mentor_no)

ENROLMENT (unit_no, student_no, enrol_year, enrol_semester, unit_grade)

MENTOR (mentor_no, mentor_name)

UNIT (unit_no, unit_name)

Full Dependencies:

student_no → student_name, student_address, student_course_enrolled, student_mode_of_study, mentor_no

mentor_no → mentor_name

unit_no, student_no, enrol_year, enrol_semester → unit_grade,

unit_no → unit_name

Attributes Synthesis

UNIT (unit_no, unit_name, unit_description, unit_value)

LECTURER (lect_no, lect_name, lect_office_no, lect_phone_no)

ADVICE (lect_no, unit_no)

UNIT (unit_no, unit_name)

STUDENT (student_no, student_name, student_address, student_course_erolled,
student_mode_of_study, mentor_no)

ENROLMENT (unit_no, student_no, enrol_year, enrol_semester, unit_grade)

MENTOR (mentor_no, mentor_name)

UNIT (unit_no, unit_name)

Note: lecturer = mentor