

#1 Fundamentals of Data Management

2019HS2 | 101624964 | Jimmy Trac

Past Task 5.1.1

#2 Table Students

Attribute	Type	Reason
stud_id	AutoNumber(10)	AutoNumber ID
stud_name	Varchar(30)	Names change rarely, saves space.
stud_phone	Char(11)	+ 6 1 4 1 2 3 4 5 6 7 8 (Only take up 11 Chars). No need for operations, therefore char.
stud_date_of_birth	Date	Date
stud_city	Char(30)	Cities can change
stud_address	Char(100)	Locations/Addresses can change.
stud_postcode	Number(4)	Operations done on them, therefore number.

#2 Table Subject

Attribute	Type	Reason
subj_code	Char(6)	A B C 1 2 3
subj_title	Varchar(30)	Rarely change, can be quite long so save space.

#2 Table Subj_Enrolment

Attribute	Type	Reason
stud_id	^	
subj_code	^	
semester	Number(1)	Semester 1 xor 2
year	Number(4)	Somewhere between 1900 and 2100
comment	Varchar(100)	Unlikely to change, save space.

#2 Table Grade

Attribute	Type	Reason
stud_id	^	
subj_code	^	
semester	^	
year	^	

Attribute	Type	Reason
grade	Char(2)	Char(1) if most students are bad

^redundancy is sin. See above.