Normalised Data

As part of the insertion of the data, all the information was derived from the non-normalised data. If an insertion data linked a student to a table set already created, we do not insert again. Instead, we just reference the student to the school.

Eg Initially not normalised followed by normalised – CastleKnock is what we are working with

Not normalised

insert into Apps\_NOT\_Normalized values(1,1,'Mark','Grafton Street','New York','NY234',2003,'Dr. Jones','Trinity College','Good guy',1,'Castleknock',65);

insert into Apps\_NOT\_Normalized values(2,2,'Sarah','Green Road','California','Cal123',2010,'Dr. Byrne','DIT','Perfect',1,'Castleknock',90);

Normalised

INSERT INTO ADDRESS VALUES ('NY234','Grafton Street','New York');

**INSERT INTO PRIORSCHOOL VALUES (1,'Castleknock');**

INSERT INTO StudentPriorSchool VALUES (1,1,65);

INSERT INTO STUDENT VALUES (2,'Sarah','Cal123');

INSERT INTO StudentPriorSchool VALUES (2,1,90);

Another Main part of the application was the tracking of the student address. Since the methodology was not mentioned at the time of completion, the student address was updated every time they moved. This would not be possible without normalising. My reason for following this was to practise complying with GDPR regulations etc.

Eg

INSERT INTO ADDRESS VALUES ('Ca455','Red Crescent','Carolina');

INSERT INTO STUDENT VALUES (3,'Paul','NY234');

INSERT INTO ADDRESS VALUES ('Mex1','Yellow Park','Mexico');

**UPDATE** STUDENT SET ZipCode = 'Mex1' WHERE StudentID = 3;