SQL Assignment

Start Assignment

- Due Monday by 12:00
- Points 25
- Submitting a file upload
- File types pdf
- Attempts 0
- Allowed attempts 3
- Available 8 Feb at 9:00 - 11 Mar at 12:00

You will be expected to utilise your knowledge of creating SQL databases.

Picking any topic of your choice, you will generate a database using the SQLite software.

The database will contain at least 1000 rows and 7 columns, where at least one column has nominal data, at least one has ordinal data, at least one has interval data and at least one has ratio data. Extra marks will be awarded for the utilisation of foreign and compound keys across multiple tables. Randomised data covering all appropriate data types will be further rewarded.

You will submit a PDF report with screenshots/pasted code about:

A. How you generated the data (do not download other people's data).
B. The schema of your database.
C. Your justification for any separate tables and ethical discussion.
D. Example queries of your database including joins and selections, demonstrating different data types.

As ever, you are reminded that this is an **individual** assignment, i.e. no collusion is allowed. Any submissions deemed to be the result of copying or group work will be seen as academic misconduct and a grade of 0 will be issued.

SQL Assessment

Criteria	Ratings				Pts
Database Generation	**7.5 to >5.0 Pts** **Full marks** Students will have all data types represented, with appropriate values assigned. Data will have been randomly created within sensible ranges and as realistic as possible. There may be missing values and duplicates.	**5 to >3.0 Pts** **High Marks** Students will have all data types represented, with appropriate values assigned. Data may have been randomly created within sensible ranges.	**3 to >0.0 Pts** **Pass** Students will have all data types represented.	**0 Pts** **No marks**	7.5 pts
Database Schema	**10 to >7.5 Pts** **Full marks** Students will create a multi-table database that utilises foreign keys and composite keys. Each attribute will have sensible constraints.	**7.5 to >5.0 Pts** **High Marks** Students will create a multi-table database. Each attribute has sensible constraints.	**5 to >0.0 Pts** **Pass** Students will have an operational database.	**0 Pts** **No marks**	10 pts
Report Justification	**5 to >3.5 Pts** **Full marks** Students will have satisfyingly justified their choice of tables. There is a good discussion on ethics and data privacy.	**3.5 to >2.5 Pts** **High Marks** Students will have satisfyingly justified their choice of tables.	**2.5 to >0.0 Pts** **Pass** Students will have discussed their choice of tables, but there will be some aspects of their justification which is lacking.	**0 Pts** **No marks**	5 pts
Report Quality	**2.5 to >2.0 Pts** **Full marks** Spelling, grammar and structure is at a high quality.	**2 to >1.5 Pts** **High Marks** Spelling, grammar and strucutre is of a good quality.	**1.5 to >0.0 Pts** **Pass** Spelling, grammar and strucutre is appropriate.	**0 Pts** **No marks**	2.5 pts
				Total points: 25	