

Viral Vulnerability Assignment Rubric

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Criteria	Ratings					Pts
Data Import	1.0 pts Good all 5 CSV files loaded		0.5 pts Needs Improvement not all data loaded		0.0 pts No Marks not done	1.0 pts
DB Schema	2.0 pts Very Good good normalised schema with all PKs and suitable FKs; consistent naming; suitable domain types		1.0 pts Good tables for all data with PK and some FKs	0.5 pts Needs Improvement incomplete schema	0.0 pts No Marks no db created	2.0 pts
Neighbourhood Join	2.0 pts Very Good correct precise matching using PostGIS and exact ABS boundaries.	1.0 pts Good matched by just name (not spatially) or match using built-in GEOMETRY types on approx. bounding boxes of suburbs		0.5 pts Needs Improvement incomplete attempt	0.0 pts No Marks not done	2.0 pts
Own Dataset	2.0 pts Very Good At least one more dataset imported into DBMS (with good schema) of a type not used so far (eg. JSON)		1.0 pts Good Another CSV dataset read via Python script at runtime or into simple schema	0.5 pts Needs Improvement incomplete attempt to integrate another data set	0.0 pts No Marks no own dataset	2.0 pts
Vulnerability Score	3.0 pts Very Good Vulnerability score well implemented, incl. extension if own dataset was integrated		1.5 pts Good Basic vulnerability-score as given implemented	0.5 pts Needs Improvement incomplete attempt	0.0 pts No Marks not done	3.0 pts
Indexing	1.0 pts Good More than one useful index created; at least one spatial index		0.5 pts Ok At least one useful index created		0.0 pts No Marks no index beyond PKs	1.0 pts

Correlation Tests	1.0 pts Very Good score correlated to latest COVID-19 cases and to COVID-19 tests	0.5 pts Good either score correlated to COVID-19 cases or to COVID-19 tests	0.25 pts Needs Improvement incomplete attempt	0.0 pts No Marks not done	1.0 pts
Dataset Description	1.0 pts Good all data sources briefly described	0.5 pts Needs Improvement incomplete description		0.0 pts No Marks not done	1.0 pts
Database Description	1.0 pts Good db schema diagram given	0.5 pts Needs Improvement incomplete description		0.0 pts No Marks not done	1.0 pts
Viral Risk Analysis	1.0 pts Very Good scoring function well described; good discussion of results ideally with graphical visualisation	0.75 pts Good used scoring function described with one textual example result	0.5 pts Needs Improvement incomplete description	0.0 pts No Marks not done	1.0 pts
Correlation Analysis	1.5 pts Very Good correlation analysis described with statistical interpretation	1.0 pts Good correlation analysis described and stats listed	0.5 pts Needs Improvement incomplete description	0.0 pts No Marks not done	1.5 pts
Data Visualisation	2.0 pts Very Good good figures/plots plus some useful map-overlay visualisation (optional even interactive)	1.0 pts Good good use of figures (such as plots) to visualise the analysis results	0.5 pts Needs Improvement incomplete or wrong data visualisation	0.0 pts No Marks no report	2.0 pts
Report Quality	1.5 pts Very Good great report which is in length limit, is well structured, is well written, no spelling mistakes and grammatically correct, good use of figures to visualise points, good font size and spacing	1.0 pts Good good report with at most three things that could get improved (list see besides)	0.5 pts Needs Improvement report has more than three weaknesses	0.0 pts No Marks no report	1.5 pts
Total Points: 20.0					