

	Grade: Achieved
3.	<p>For Achieved, the student needs to use complex techniques to develop a database.</p> <p>This involves:</p> <ul style="list-style-type: none"> • designing the structure of the data • using appropriate tools and techniques to organise, query, and present data for a purpose and end-users • applying appropriate data integrity and testing procedures • addressing relevant implications. <p>There is no student work currently available at this grade.</p> <p>The student has produced a database plan that includes the input, output, and processing of the database.</p> <p>This includes:</p> <ul style="list-style-type: none"> • at least two linked tables, • shows the structure of the tables, • shows the designs for the input and output interfaces, • planned queries to process information in the database • a plan for linking the tables. <p>They have used at least two complex techniques from the list in Explanatory Note (EN) 4.</p> <p>The student has used appropriate tools and techniques to organise, query, and present data for a purpose and end-users. For example, they have:</p> <ul style="list-style-type: none"> • Used appropriate data types and data formatting • Written a custom query that inserts, updates, or deletes to modify data • Created a form drawing data from multiple tables, which allows users to modify data in the database via a website • Allowed different levels of authorised users to add, edit, and delete information in the database. <p>Data integrity and testing have been applied and show that the database functions as intended and that the data is relevant for the intended purpose and end-user.</p> <p>Testing shows that the data in the database is correct, including data being validated before it is added to the database to prevent obviously invalid material from being inserted (e.g., blank records), and that adding material to the database works correctly and that the various queries returned the expected results.</p> <p>The student has shown how their database addresses at least two identified relevant implications. For a database, this could include how they have addressed privacy concerns and met end-user considerations.</p>