ICT Database Essentials Objectives Matrix

The *ICT Database Essentials* course focuses on fundamentals of using relational databases. Students will learn about common database components including tables, record and field structures, and data types. They will learn about queries and how to create them. They will study data import/export mechanisms. They will learn the basics of Structured Query Language (SQL) statements for managing and manipulating data. Finally, they will use the skills they have learned to create basic database tables, data queries and data reports.

ICT Database Essentials Objective	ICT Database Essentials Courseware Lesson(s) and Section(s)
Domain 9.1: Describe the purpose and uses of relational databases, including databases vs. spreadsheets, advantages of databases, real-world uses, and "Big Data."	
9.1.1: Describe the functions of a relational database.	Lesson 1: What is a Database?
	- Introduction to Databases
9.1.2: Distinguish between databases and spreadsheets.	Lesson 1: What is a Database?
	- Introduction to Databases
9.1.3: Identify advantages of using a database instead of alternatives (e.g., spreadsheets, electronic documents, paper).	Lesson 1: What is a Database?
	- Introduction to Databases
9.1.4: Describe real-world uses for databases, including search engines, schools, hospitals, retail.	Lesson 1: What is a Database?
	- Introduction to Databases
9.1.5: Define "Big Data" and describe how it is used in advertising.	Lesson 1: What is a Database?
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		- Creating Table Joins	
- Importing and Exporting Data	9.4.6: Export data from a database into a spreadsheet.	Lesson 4: Manipulating and Sharing Data in a Database	
		- Importing and Exporting Data	

ICT Database Essentials Objective	ICT Database Essentials Courseware Lesson(s) and Section(s)
9.4.7: Import data from a spreadsheet into a database.	Lesson 4: Manipulating and Sharing Data in a Database - Importing and Exporting Data
9.4.8: Create relevant reports from a database.	Lesson 4: Manipulating and Sharing Data in a Database
	- Creating Database Reports