



**FACULTY: EBE  
DEECE**

QUALIFICATION (S)	Bachelor of Engineering Technology in Computer Engineering			CODE (S)	BPETCP
SUBJECT (S)	Database Systems 3			CODE (S)	DSS370S
NO OF PAGES (including cover page)	3	DATE	20 June 2025	TIME	23h59
ANNEXURE (S) (Y/N)	N			DURATION	
COLOUR IMAGES (Y/N)					

EXAMINER NAME	V Moyo
INTERNAL MODERATOR	MT Adonis
EXTERNAL MODERATOR	M Velempini
<b>INSTRUCTIONS</b>	
Answer all questions. This Assignment relates to GA 9. Screenshots of tables before and after and the SQL snippets are expected in all your solutions. Always start a new question on a new page.	
<b>REQUIREMENTS</b>	
Computer with MySQL	

**DO NOT turn the page over before the starting time**

**Stored Procedures, Functions, Triggers, Cursors and Events** are some of the advanced queries that can be used as database management tools for efficient database management.

Create a database of your choice. Name the database with your surname and student number.

Create a minimum of 5 tables. Prefix each table name with your last name. Table names must relate to the table contents.

Each table should have a minimum degree of 5 and a minimum cardinality of 4.

1. Demonstrate the use of any other advanced query that you found in your research, besides Stored Procedures, Functions, Triggers, Cursors or Events. The demonstration should highlight your curiosity and ability to explore advanced queries. **20 marks (minimum of a page)**
2. Demonstrate the use of a Stored Procedure. The demonstration should highlight additional opportunities that can be explored with a Stored Procedure. **20 marks (minimum of a page)**
3. Demonstrating the ability to use a Trigger. The use of a Trigger should highlight your skills to adapt some of your known knowledge in new situations. **20 marks (minimum of a page)**
4. Demonstrate the ability to use a Cursor, Function and Event. Your demonstration should highlight current trends in database management systems. **20 marks (minimum of a page)**
5. Reflect on these advanced queries. Document your:
  - a. Evaluation of the advanced queries
  - b. Experience on using the advanced queries
  - c. Take away from the use of advanced queries
  - d. Your limitations on the use of advanced queries**20 marks (minimum of a page)**
6. At least 15 References. Five conference papers. Five journal articles. Five textbooks. Five websites/YouTube. **-15 marks** (1 mark will be deducted for an invalid reference up to a maximum of 15 marks)

**Submission:**

1. MS Word document with all your narration and screen shots. Make sure the questions are clearly numbered. Name the file name with your surname and student number suffixed with the task, e.g. Smith\_200200200\_GA9\_Assignment\_report.
2. Note pad (text file) with all the pertinent SQL **in order.** Name the file name with your surname and student number suffixed with the task, e.g. Smith\_200200200\_GA9\_Assignment\_sql
3. DO NOT ZIP