

061306T4CSC

COMPUTER SCIENCE LEVEL 6

ICT/OS/CS/CR/05/6/A

Demonstrate Database Management Skills

March/April 2025



**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION
COUNCIL (TVET CDACC)**

PRACT

MENT

OBSERVATION CHECKLIST

Candidate's Name			
Candidate's Registration Code			
Assessor's Name			
Assessor's Registration Code			
Venue of Assessment			
Date of assessment			
<i>(Award mark(s) appropriately as guided for in the items for evaluation indicated. Give a brief comment where necessary)</i>			
Items to be evaluated:		Marks obtained	Comments
Task 1: Implement a Database Design for the e-commerce system.			
1. Observed computer laboratory rules. <i>(Award 1 marks for each or zero)</i>	2		
2. Selected the correct shapes to represent all variables for the ER diagram. - Ellipse - Rectangle - Diamond - Line 3. <i>(Award ½ mark for each or zero)</i>	2		
4. Logically arranged the shapes to complete the required ER diagram - Ellipse - Rectangle - Diamond - Line	4		

<i>(Award 1 marks for each correct arrangement or zero)</i>			
5. Launched MS SQL Server correctly <i>(Award 2 marks or zero)</i>	2		
6. Created the database structure correctly - Name - Field names - Field properties <i>(Award 2 marks for each or zero)</i>	6		
7. Populated the three tables with records. - Products data - Customer's data - Supplier data <i>(Award 2 marks for each or zero)</i>	6		
8. Normalized all tables. - Products Table - Customer Table - Supplier Table <i>(Award 1 mark for each or zero)</i>			
Subtotal 1	25		
Task 2: Perform Database transactions to test functionality of the database.			
9. Opened the correct window for query design and execution on MS SQL Server. <i>(Award 2 marks or zero)</i>	2		
10. Wrote the correct SQL code to perform the following tasks;	10		

- Placing orders. - Tracking order status. - Generating invoices. - Analyzing sales trends. - Implementing user authentication and authorization. (Award 2 marks or zero for each query)			
11. Tested the queries and displayed correct results. - Place order - Track order - Generate invoice - Analyze sales - Authenticate user (Award 1 mark for each or zero)	5		
12. Created views for; - Customer order history (Award 2 marks or zero)			
13. Created views for; - Product inventory (Award 2 marks or zero)	2		
14. Created a trigger that; - Updates inventory (Award 2 marks or zero)	2		
15. Created a trigger that; - Sends order confirmation emails (Award 2 marks or zero)	2		
TOTAL	25		
TOTAL (all Tasks)	50		

ASSESSMENT OUTCOME**The candidate was found to be:**

Competent

☐

Not yet competent

☐*(Please tick as appropriate)**(The candidate is competent if s/he gets 50% or higher of the items of evaluation correct)***Feedback from candidate:****Feedback to candidate:****Candidate's Signature****Date**

Assessor's/ verifier's signature