

061205T4CYB

CYBER SECURITY LEVEL 5

SEC/OS/CS/CR/05/5/A

Secure Databases

Nov / Dec 2024



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

PRACTICE

OBSERVATION CHECKLIST

Candidate's Name & Registration Code			
Assessors Name & Registration Code			
Venue of Assessment			
Date of Assessment			
Items to be Evaluated: <i>Please award marks as appropriate. Give a brief comment on your observation.</i>	Marks Available	Marks Obtained	Comments
Task 1: Creating a database			
1. Created and saved the database	1		

Opened database management system, created XYZ database and saved in the correct folder - (<i>Award 1 mark or zero</i>)			
2. Created the three tables (vehicles, customer and payment) i. Typed the fieldnames correctly - (<i>Award 1 mark or zero</i>) ii. Set the right data type & field size - (<i>Award 1 mark or zero</i>) iii. Set the identifier field - (<i>Award 1 mark or zero</i>) (3 marks for each table * 3)	9		
3. Created relationship between tables vehicles and payment) i. Linked vehicle table with primary key vehicleRegNo and connected it to Customer in VehicleRegNo is foreign key- (<i>Award 1 mark or zero</i>) ii. Linked vehicle table with primary key vehicleRegNo and connected it to payment in VehicleRegNo is foreign key - (<i>Award 1 mark or zero</i>)	2		
4. Created the three forms i. Created and named frmVehiclecorrectly - (<i>Award 2 marks or zero</i>) ii. Created and named frmCustomer – (<i>Award 2 marks or zero</i>) iii. Created and named frmPayment - (<i>Award 2 marks or zero</i>)	6		

5. Entered the data into the three tables i. Entered all the data in table vehicles – <i>(Award 3 marks or zero)</i> ii. Entered all the data in table Customer – <i>(Award 3 marks or zero)</i> iii. Entered all the data in table Payment – <i>(Award 3 marks or zero)</i>	9		
6. Created a query showing the calculated payment balance. i. Extracted all the fields from the payment table – <i>(Award 1 mark or zero)</i> ii. Set the criteria / <i>SQL</i> for the calculate balance by <i>[Balance = payment. VehiclePrice – payment. AmountPaid]</i> - <i>(Award 2 marks or zero)</i>	1		
Task 1 Sub-Total	30		
TASK 2: Implementation of database security			
Encrypted the XYZ database with a unique password 1. Opened XYZ database created in task 1 - <i>(Award 1 mark or zero)</i> 2. Selected File menu and pointed to info then selected encrypt with password- <i>(Award 1 mark or zero)</i> 3. From the set database password dialog box, type the given password Retype the password in the next box and click	1 1 2		

ok to complete encryption <i>-(Award 2 marks or zero)</i>	1		
4. Save and close the database. Then open the database to test that it has been encrypted. Database should request the candidate to enter the password. <i>-(Award 1 mark or zero)</i>			
Task 2 Sub-Total	5		
TASK 3: Monitor Database Performance			
Monitored the database performance			
1. Opened XYZ database created in task 1 <i>-(Award 1 mark or zero)</i>	1		
2. Selected database tools menu and then selected database documenter from the toolbar <i>-(Award 1 mark or zero)</i>			
3. From the dialog box displayed, tick the boxes for the three tables to select them and clicked ok <i>-(Award 1 mark or zero)</i>	1		
4. From the next window displayed, under data group, select PDF or XPS to export data <i>-(Award 1 mark or zero)</i>	1		
5. From the next dialog box displayed, candidate should select his/her folder to publish the database and save as XYZ Database Report as PDF - <i>(Award 1 mark or zero)</i>	1		
Task 3 Sub-Total	5		
TASK 4: Perform Database Repair and Recovery			

Performed XYZ database repair and recovery 1. Opened XYZ database created in task 1 <i>-(Award 1 mark or zero)</i> 2. Selected File menu and then pointed info <i>-(Award 1 mark or zero)</i> 3. From the options clicked on Compact and repair database <i>-(Award 1 mark or zero)</i> 4. The application runs the repair and compact database process. In case of errors, the system resolves the issues and clears them. The database is now free from errors <i>-(Award 2 mark or zero)</i>	1 1 1 1		
Task 4 Sub-Total			
TASK 5: Manage database backup			
Backed up YYZ database file and stored the copy inside the folder 1. Opened XYZ database created in task 1 <i>-(Award 1 mark or zero)</i> 2. Selected File menu and then selected save as option <i>-(Award 1 mark or zero)</i> 3. From the save as dialog box, the candidate should select his/her folder to direct where to store the copy - <i>(Award 2 mark or zero)</i> 4. Type the filename as “XYZ back up” and click save to store the backup - <i>(Award 1 mark or zero)</i>	1 1 2 1		

Task 5 Sub-Total	5		
GRAND TOTAL	50		
ASSESSMENT OUTCOME			
The candidate was found to be: Competent ☐ Not yet Competent ☐ <i>(Please tick as appropriate)</i> <i>(The candidate is competent if the candidate obtains at least 50%)</i>			
Feedback from the Candidate:			
Feedback to the Candidate:			
Candidate Signature		Date:	
_____		_____	
Assessor's Signature		Date	
_____		_____	