Instruction Sheet for the Candidate

Qualification	Database Administrator **(Mobile App, Web & Game Development)**
Competency Standard	Design Database
Purpose of Assessment	Formative Assessment
Candidate Details	Name_____ Registration/Roll Number_____
Guidance for Candidate	**To meet this standard, you are required to complete the following within 03 Hrs. time frame (for practical demonstration & assessment):** • Install database application • Create database • Manage Tables • Manage Views • Define Functions • Define Store procedures
Time: 03 Hrs.	During a practical assessment, under observation by an assessor, you are required to
Minimum Evidence Required	**Install database application** 1. Search for different available database management systems (DBMS) 2. Select and Download suitable DBMS 3. Install DBMS **Create Database** 1. Identify the purpose of database 2. Find and organize the information required. 3. Create database with suitable name **Manage Tables** 1. Divide information to manage in tables 2. Create tables for identified information 3. Specify primary keys if needed 4. Setup table relationships 5. Apply normalization rules 6. Alter tables if needed through alter table query 7. Delete Table if needed using Drop table query **Manage Views** 1. Identify the views needed to create 2. Identify tables for views 3. Identify attributes for views 4. Create view using "Create View" Query 5. Replace view if needed using REPLACE View Query

	6. Delete view if needed using DROP View Query
	Define Functions
	    1. Specify name of the function
	    2. Specify name and datatype of each parameter
	    3. Specify Return keyword and datatype of the return value
	    4. Specify the function body
	    5. Specify the End keyword
	Define Store Procedures
	    1. Create Store procedure using "Create Procedure" keyword
	    2. Specify parameters using comma separated list

Self-Assessment Checklist

Candidate Name	
Registration No.	
Qualification	Database Administrator **(Mobile App, Web & Game Development)**
Competency Standard	Design Database
Purpose of Assessment	Formative Assessment
Assessment Task	• Install database application • Create database • Manage Tables • Manage Views • Define Functions • Define Store procedures

I can………………

Performance Criteria	Yes	No
1. Search for different available database management systems (DBMS)		
2. Select and Download suitable DBMS		
3. Install DBMS		
4. Identify the purpose of database		
5. Find and organize the information required.		
6. Create database with suitable name		
7. Divide information to manage in tables		
8. Create tables for identified information		
9. Specify primary keys if needed		
10. Setup table relationships		
11. Apply normalization rules		
12. Alter tables if needed through alter table query		
13. Delete Table if needed using Drop table query		
14. Identify the views needed to create		
15. Identify tables for views		
16. Identify attributes for views		
17. Create view using "Create View" Query		
18. Replace view if needed using REPLACE View Query		

19. Delete view if needed using DROP View Query		
20. Specify name of the function		
21. Specify name and datatype of each parameter		
22. Specify Return keyword and datatype of the return value		
23. Specify the function body		
24. Specify the End keyword		
25. Create Store procedure using "Create Procedure" keyword		
26. Specify parameters using comma separated list		

Candidate's Signature_____ Assessor's Signature_____

Date: _____

Assessors Judgment Guide

Qualification	Database Administrator **(Mobile App, Web & Game Development)**
Competency Standard	Design Database
Purpose of Assessment	Formative Assessment
Candidate Details	Name: _____ Registration/Roll Number: _____ Signature: _____
Assessment Outcome	COMPETENT ☐ NOT YET COMPETENT ☐ **Name of the Assessor**_____ **Assessor's code:** _____ **Signature:** _____

Assessment Summary (to be filled by the assessor)							
Activity	**Method**					**Result**	
Nature of Activity	Written	Oral	Observation	Portfolio	Role Play	Competent	Not Yet Competent
Practical Skill Demonstration			✓				
Knowledge Assessment		✓					
Other Requirement							

Observation Checklist

Assessment Task	• Install database application • Create database • Manage Tables • Manage Views • Define Functions • Define Store procedures			
During the practical assessment, candidate demonstrated the following:		**Yes**	**No**	**Remarks**
1.	Search for different available database management systems (DBMS)			
2.	Select and Download suitable DBMS			
3.	Install DBMS			
4.	Identify the purpose of database			
5.	Find and organize the information required.			
6.	Create database with suitable name			
7.	Divide information to manage in tables			
8.	Create tables for identified information			
9.	Specify primary keys if needed			
10.	Setup table relationships			
11.	Apply normalization rules			
12.	Alter tables if needed through alter table query			
13.	Delete Table if needed using Drop table query			
14.	Identify the views needed to create			
15.	Identify tables for views			
16.	Identify attributes for views			
17.	Create view using "Create View" Query			
18.	Replace view if needed using REPLACE View Query			
19.	Delete view if needed using DROP View Query			

20.	Specify name of the function			
21.	Specify name and datatype of each parameter			
22.	Specify Return keyword and datatype of the return value			
23.	Specify the function body			
24.	Specify the End keyword			
25.	Create Store procedure using "Create Procedure" keyword			
26.	Specify parameters using comma separated list			

Competent ☐ | **Not Yet Competent** ☐

Knowledge Assessment

Qualification	Database Administrator **(Mobile App, Web & Game Development)**
Competency Standard	Design Database
Purpose of Assessment	Formative Assessment
Candidate Details	Name: _____ Registration/Roll Number: _____ Candidate Signature: _____
Assessment Outcome	**COMPETENT** ☐ **NOT YET COMPETENT** ☐ Name of the Assessor: _____ Assessor's code: _____ Signature of the Assessor: _____

Candidate's response is not required to be identical, but similar concepts and/or keywords must be used. Oral questioning may be used to clarify candidate understanding of topic and its application.

Questions (Candidate confidently answered questions correctly and demonstrated understanding of the topics and their application)	**Satisfactory**	**Not Satisfactory**
1. Differentiate between database and database management system		
2. Name the anomaly of 3NF.		
3. Why we use normalization?		
4. What is ERD?		

5.	Define referential integrity?		

Feedback to the Candidate
Candidate's Signature_____ **Assessor's Signature** _____