

Instruction Sheet for the Candidate

Qualification	Database Administrator (Mobile App, Web & Game Development)
Competency Standard	Control and monitor Database
Purpose of Assessment	Formative Assessment
Candidate Details	Name_____
	Registration/Roll Number_____
Guidance for Candidate	<p>To meet this standard, you are required to complete the following within 03 Hrs. time frame (for practical demonstration & assessment):</p> <ul style="list-style-type: none"> • Manage users in database • Manage Permissions • Monitor Database • Secure Database
Time: 03 Hrs.	During a practical assessment, under observation by an assessor, you are required to
Minimum Evidence Required	<p>Manage Users in database</p> <ol style="list-style-type: none"> 1. Access DBMS using root user and password 2. Create user account using CREATE command 3. Set Password 4. Use wildcard characters 5. Delete user account using DROP command if needed <p>Manage Permissions</p> <ol style="list-style-type: none"> 1. Use permission attributes 2. Grant Permissions to users using GRANT PRIVILEGES clause 3. Grant ALL or multiple permissions 4. View user privileges using SHOW GRANTS clause 5. Revoke user privileges using REVOKE clause <p>Monitor Database</p> <ol style="list-style-type: none"> 1. Monitor availability and connections using UPTIME, Thread_connected, Max_used_connections, Aborted_connects commands 2. Identify Typical Errors/failure points 3. Monitor queries using slow_queries, select_full_join, create_tmp_disk_tables etc. 4. Use commands to monitor cache 5. Use commands to monitor buffer 6. Use commands to monitor locks 7. Monitor performance using SHOW, EXPLAIN etc. <p>Secure Database</p> <ol style="list-style-type: none"> 1. Update the password plugin 2. Set a password for root account 3. Remove root account that are accessible from outside the local

	<p>host</p> <ol style="list-style-type: none">4. Remove anonymous user accounts5. Remove the test database and privileges that permits anyone to access database with names that start with test_
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Self-Assessment Checklist

Candidate Name	
Registration No.	
Qualification	Database Administrator (Mobile App, Web & Game Development)
Competency Standard	Control and monitor Database
Purpose of Assessment	Formative Assessment
Assessment Task	<ul style="list-style-type: none"> • Manage users in database • Manage Permissions • Monitor Database • Secure Database

I can.....

Performance Criteria	Yes	No
1. Access DBMS using root user and password	<input type="checkbox"/>	<input type="checkbox"/>
2. Create user account using CREATE command	<input type="checkbox"/>	<input type="checkbox"/>
3. Set Password	<input type="checkbox"/>	<input type="checkbox"/>
4. Use wildcard characters	<input type="checkbox"/>	<input type="checkbox"/>
5. Delete user account using DROP command if needed	<input type="checkbox"/>	<input type="checkbox"/>
6. Use permission attributes	<input type="checkbox"/>	<input type="checkbox"/>
7. Grant Permissions to users using GRANT PRIVILEGES clause	<input type="checkbox"/>	<input type="checkbox"/>
8. Grant ALL or multiple permissions	<input type="checkbox"/>	<input type="checkbox"/>
9. View user privileges using SHOW GRANTS clause	<input type="checkbox"/>	<input type="checkbox"/>
10. Revoke user privileges using REVOKE clause	<input type="checkbox"/>	<input type="checkbox"/>
11. Monitor availability and connections using UPTIME, Thread_connected, Max_used_connections, Aborted_connects commands	<input type="checkbox"/>	<input type="checkbox"/>
12. Identify Typical Errors/failure points	<input type="checkbox"/>	<input type="checkbox"/>
13. Monitor queries using slow_queries, select_full_join, create_tmp_disk_tables etc.	<input type="checkbox"/>	<input type="checkbox"/>
14. Use commands to monitor cache	<input type="checkbox"/>	<input type="checkbox"/>
15. Use commands to monitor buffer	<input type="checkbox"/>	<input type="checkbox"/>
16. Use commands to monitor locks	<input type="checkbox"/>	<input type="checkbox"/>
17. Monitor performance using SHOW, EXPLAIN etc.	<input type="checkbox"/>	<input type="checkbox"/>
18. Update the password plugin	<input type="checkbox"/>	<input type="checkbox"/>
19. Set a password for root account	<input type="checkbox"/>	<input type="checkbox"/>

20. Remove root account that are accessible from outside the local host	<input type="checkbox"/>	<input type="checkbox"/>
21. Remove anonymous user accounts	<input type="checkbox"/>	<input type="checkbox"/>
22. Remove the test database and privileges that permits anyone to access database with names that start with test_	<input type="checkbox"/>	<input type="checkbox"/>

Candidate's Signature _____ Assessor's Signature _____

Date: _____

Observation Checklist

Assessment Task	<ul style="list-style-type: none"> • Manage users in database • Manage Permissions • Monitor Database • Secure Database 		
During the practical assessment, candidate demonstrated the following:	Yes	No	Remarks
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			

20.	Remove root account that are accessible from outside the local host			
21.	Remove anonymous user accounts			
22.	Remove the test database and privileges that permits anyone to access database with names that start with test_			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Knowledge Assessment

Qualification	Database Administrator (Mobile App, Web & Game Development)
Competency Standard	Control and monitor Database
Purpose of Assessment	Formative Assessment
Candidate Details	Name: _____ Registration/Roll Number: _____ Candidate Signature: _____
Assessment Outcome	COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/> 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.	Define DCL. _____		
2.	Name role privileges in managing permissions in database. _____		
3.	Which command is used to create user of database? _____		
4.	Which command is used to delete user of database? _____		

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