GOVERNMENT GRADUATE COLLEGE (W), SATELLITE TOWN GUJRANWALA

BS-IT(7TH) Semester 2024

Examination: B.S. 4 Years Program

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| Roll no: | | | |
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PAPER: Database Administration Lab TIME ALLOWED:2hrs.

Course Code:DI-324 L MAX. MARKS: 50

Attempt this Paper on Separate Answer Sheet Provided (Group 1)

Questions

Q1. Create database and Login with sys user

(10)

- Describe how the user management is handled in oracle database?
- Create a new user named As John.
- After creation assign privileges GRANT, REVOKE
- Assign object privileges to user. (Select, Insert)
- Make user 1 as admin so he can assign other object privileges to another user
- In all scenario you have to create two users
- Q2. Create table Emp and department in Oracle database in user management (10)
 - Insert at least 5 columns like (id, name, address, salary, city)
 - Apply primary key and foreign key on the table.
 - Assign tablespaces by default on all these tables quota will be 100MB.
- Q3. Write all the dictionary views of sp file (5)
 - How sp file is converted into pfile
 - using RMAN to recover a database in Nonarchivelog Mode
- Q4. Take full backup and incremental backup of your datafiles and control file.(10)
 - For this you can use RMAN application. Configure RMAN and connect with the sql plus.
 - Take online backups of datafile, control file and redo log file
- **Q5**. Viva voice (15)

Solution:

1.a. User Management Process:

- 1. User Creation: A database administrator (DBA) creates a new user account using the CREATE USER statement.
- 2. User Authentication: The user provides a username and password to connect to the database.
- 3. User Authorization: The DBA grants privileges and roles to the user to perform specific tasks.
- 4. User Account Management: The DBA manages user accounts, including resetting passwords, locking/unlocking accounts, and deleting accounts.

User Management Components:

- 1. Users: Entities that connect to the database.
- 2. Roles: Collections of privileges that can be granted to users.
- 3. Privileges: Specific rights to perform actions on database objects.
- 4. Profiles: Collections of settings that define resource limits and password policies.

Best Practices:

- 1. Use strong passwords: Enforce password policies to ensure secure passwords.
- 2. Grant least privilege: Grant only necessary privileges to users.
- 3. Use roles: Use roles to simplify privilege management.
- 4. Regularly review user accounts: Periodically review user accounts to ensure they are still necessary and have the correct privileges.
- **1.b.** create user jhon identified by 123 default tablespace users temporary tablespace temp quota 15m on users;
- **1.C.** grant create session to jhon;

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grant create table to jhon;
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- grant create view to jhon;
- ${f 1.d.}$ GRANT SELECT, INSERT ON John.Emp TO another_user;
- ${f 1.e.}$ CREATE USER AdminUser IDENTIFIED BY Admin123;

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2.2+b. CREATE TABLE Department ( dept_id NUMBER PRIMARY KEY, dept_name VARCHAR2(50) );

CREATE TABLE Emp (
id NUMBER PRIMARY KEY,
name VARCHAR2(50),
address VARCHAR2(100),
salary NUMBER,
city VARCHAR2(50),
dept_id NUMBER,
CONSTRAINT fk_dept FOREIGN KEY (dept_id) REFERENCES Department(dept_id) );

2.C. CREATE TABLESPACE emp_dept_ts

DATAFILE 'emp_dept_ts.dbf'
SIZE 500M

AUTOEXTEND ON

NEXT 50M MAXSIZE 1G;
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ALTER USER John DEFAULT TABLESPACE emp_dept_ts QUOTA 100M ON emp_dept_ts;



