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| Thứ tự yêu cầu | Code SQL | Minh chứng kết quả |
| 1 | Thiết lập trong SQL Developer | A screenshot of a computer  AI-generated content may be incorrect. |
| 2 | SHOW CON\_NAME; | A screenshot of a computer program  AI-generated content may be incorrect. |
| 3 | CREATE PLUGGABLE DATABASE orclpdb3 ADMIN USER hoangphuc\_pdb IDENTIFIED BY  012345678 ROLES=  (DBA) file\_name\_convert=  ('pdbseed', 'orclpdb3');  ALTER PLUGGABLE DATABASE orclpdb3  OPEN; | A close-up of a white background  AI-generated content may be incorrect. |
| 4 | Tiến hành chuyển đổi session và đăng nhập vào user sys trong properties. | A screenshot of a computer  AI-generated content may be incorrect. |
| 5 | SHOW CON\_NAME; | A black and white image of a line  AI-generated content may be incorrect. |
| 6 | CREATE USER hoangphuc\_user1 IDENTIFIED BY 012345678;  CREATE USER hoangphuc\_user2 IDENTIFIED BY 112345678;  CREATE USER hoangphuc\_user3 IDENTIFIED BY 212345678; | A screenshot of a computer  AI-generated content may be incorrect. |

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| Thứ tự yêu cầu | Mã SQL | Minh chứng kết quả |
| 7 | Yêu cầu kết nối tới user 1 trong properties. Vì chưa được cấp quyền tạo session do đó không thể vào trong user 1 được. | A screenshot of a computer  AI-generated content may be incorrect. |
| 8 | Ta trở lại quyền admin của PDB hiện hành | A screenshot of a computer  AI-generated content may be incorrect. |
| 9 | CREATE ROLE role\_manager; | A black text on a white background  AI-generated content may be incorrect. |
| 10 | GRANT CREATE SESSION, CREATE TABLE TO role\_manager WITH ADMIN OPTION; | A black text on a white background  AI-generated content may be incorrect. |
| 11 | GRANT role\_manager TO hoangphuc\_user1; | A black text on a white background  AI-generated content may be incorrect. |
| 12 | Tiến hành kết nối với user 1 và nhận thấy rằng kết nối đã thành công. | A screenshot of a computer  AI-generated content may be incorrect. |
| 13 | CREATE TABLE TEST (  ID NUMBER PRIMARY KEY,  NAME VARCHAR2(100)  ); |  |
| 14 | GRANT role\_manager TO hoangphuc\_user2;  (Vì đang không ở quyền admin do đó dẫn đến lỗi hệ thống) | A close-up of a document  AI-generated content may be incorrect. |
| 15 | GRANT CREATE SESSION TO hoangphuc\_user2 | A black text on a white background  AI-generated content may be incorrect. |
| 16 | Thực hiện kết nối trong properties. User 2 không có quyền thực hiện tạo bảng. | A screenshot of a computer  AI-generated content may be incorrect.A screenshot of a computer code  AI-generated content may be incorrect. |
| 17 | GRANT CREATE SESSION TO hoangphuc\_user3  (Do không được cung cấp role manager nên user 2 không thể tiến hành cung cấp quyền). | A screenshot of a computer error  AI-generated content may be incorrect. |
| 18 | Tiến hành kết nối lại vào admin role của PDB hiện hành |  |
| 19 | GRANT role\_manager TO hoangphuc\_user3 | A black text on a white background  AI-generated content may be incorrect. |
| 20 | Tiến hành kết nối vào user 3 thành công. | A screenshot of a computer  AI-generated content may be incorrect. |
| 21 | GRANT role\_manager TO hoangphuc\_user2  (role manager không được cho quyền gán role trong WITH ADMIN OPTION) | A close-up of a message  AI-generated content may be incorrect. |
| 22 | Không thể tạo bảng trong user 2 từ user 3. Cần có quyền DBA | A screenshot of a computer error  AI-generated content may be incorrect. |
| 23 | SELECT \* FROM USER\_ROLE\_PRIVS; |  |

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| Thứ tự câu hỏi | Code SQL | Minh chứng kết quả |
| 2 | CREATE PLUGGABLE DATABASE orclpdb4 ADMIN USER hoangphuc\_pdb IDENTIFIED BY  012345678 ROLES=  (DBA) file\_name\_convert=  ('pdbseed', 'orclpdb4');  ALTER PLUGGABLE DATABASE orclpdb4  OPEN;  ALTER SESSION  SET CONTAINER  =orclpdb4; | A black text on a white background  AI-generated content may be incorrect. |
| 3 | Thực hiện chuyển sys user trong SQLDeveloper | A screenshot of a computer  AI-generated content may be incorrect. |
| 4 | SHOW CON\_NAME | A close-up of a computer screen  AI-generated content may be incorrect. |
| 5 | CREATE TABLESPACE tbs\_01  DATAFILE '/opt/oracle/oracle\_data/lab/lab\_2/tbs\_lab2\_ex3.dbf' SIZE 200M; | A black text on a white background  AI-generated content may be incorrect. |
| 6 | CREATE USER hoangphuc\_user1 IDENTIFIED BY 112345678;  CREATE USER hoangphuc\_user2 IDENTIFIED BY 212345678;  CREATE USER hoangphuc\_user3 IDENTIFIED BY 312345678;  CREATE USER hoangphuc\_user4 IDENTIFIED BY 412345678;  ALTER USER hoangphuc\_user1 QUOTA 1M ON TBS\_01;  ALTER USER hoangphuc\_user2 QUOTA 1M ON TBS\_01;  ALTER USER hoangphuc\_user3 QUOTA 1M ON TBS\_01;  ALTER USER hoangphuc\_user4 QUOTA 1M ON TBS\_01; | A group of black text  AI-generated content may be incorrect.A close-up of a computer code  AI-generated content may be incorrect. |
| 7 | GRANT CREATE SESSION TO hoangphuc\_user1;  GRANT CREATE SESSION TO hoangphuc\_user4; | A close-up of words  AI-generated content may be incorrect. |
| 8 | SELECT \* FROM DBA\_SYS\_PRIVS WHERE GRANTEE = 'HOANGPHUC\_USER1'; |  |
| 9 | CREATE ROLE PROGRAMMING\_ROLE;  GRANT CREATE SESSION, CREATE TABLE TO PROGRAMMING\_ROLE; | A close-up of a white background  AI-generated content may be incorrect. |
| 10 | GRANT PROGRAMMING\_ROLE TO HOANGPHUC\_USER2 WITH ADMIN OPTION; | A black text on a white background  AI-generated content may be incorrect. |
| 11 | SELECT \* FROM DBA\_SYS\_PRIVS WHERE GRANTEE = 'HOANGPHUC\_USER2'; | A white rectangular sign with black text  AI-generated content may be incorrect. |
| 13 | CREATE TABLE employees (  id NUMBER PRIMARY KEY,  name VARCHAR2(100) NOT NULL,  salary NUMBER(10,2),  description VARCHAR2(255)  ); | A close-up of a sign  AI-generated content may be incorrect. |
| 14 | GRANT UNLIMITED TABLESPACE TO hoangphuc\_user2;  INSERT INTO employees (id, name, salary, description)  VALUES (1, 'LE NGUYEN HOANG PHUC', 60000, 'BOSS');  INSERT INTO employees (id, name, salary, description)  VALUES (2, 'NGUYEN HOANG PHUC', 55000, 'Software Engineer'); | A black text on a white background  AI-generated content may be incorrect.A black text on a white background  AI-generated content may be incorrect. |
| 15 | GRANT PROGRAMMING\_ROLE TO HOANGPHUC\_USER3;  GRANT UPDATE (NAME, SALARY) ON EMPLOYEES TO HOANGPHUC\_USER3; | A close-up of words  AI-generated content may be incorrect. |
| 17 | GRANT PROGRAMMING\_ROLE TO HOANGPHUC\_USER1; | A close-up of a computer screen  AI-generated content may be incorrect. |
| 18 | SELECT \* FROM HOANGPHUC\_USER2.EMPLOYEES; | A close-up of a computer error  AI-generated content may be incorrect. |
| 19 | GRANT SELECT ON HOANGPHUC\_USER2.EMPLOYEES TO HOANGPHUC\_USER1; | A black text on a white background  AI-generated content may be incorrect. |
| 20 | SELECT \* FROM SYS\_DBA\_PRIVS; |  |
| 21 | GRANT ALL ON HOANGPHUC\_USER2.EMPLOYEES TO HOANGPHUC\_USER1; | A black text on a white background  AI-generated content may be incorrect. |
| 22 | GRANT CREATE SEQUENCE TO HOANGPHUC\_USER3; | A black text on a white background  AI-generated content may be incorrect. |
| 23 | CREATE TABLE students (  id NUMBER PRIMARY KEY,  fullname VARCHAR2(100) NOT NULL,  birthday DATE  ); | A black text on a white background  AI-generated content may be incorrect. |
| 24 | CREATE SEQUENCE STUDENT\_SEQ; | A black text on a white background  AI-generated content may be incorrect. |
| 25 | Vì trước đó ta chưa chạy câu lệnh: ALTER USER HOANGPHUC\_USER3 DEFAULT TABLESPACE TBS\_01; do đó hành động không thể được thực thi. | A screenshot of a computer error  AI-generated content may be incorrect. |
| 26 | GRANT INSERT ON STUDENTS TO HOANGPHUC\_USER4; | A black text on a white background  AI-generated content may be incorrect. |
| 27 | GRANT DELETE ON STUDENTS TO HOANGPHUC\_USER4; | A black text on a white background  AI-generated content may be incorrect. |