Bài Lab 2 (Nhóm)

Nhóm XYZ

Phạm Trọng Đạt – 46.01.104.024

Trịnh Anh Khoa – 43.01.104.080

Nguyễn Quốc An – 46.01.104.001
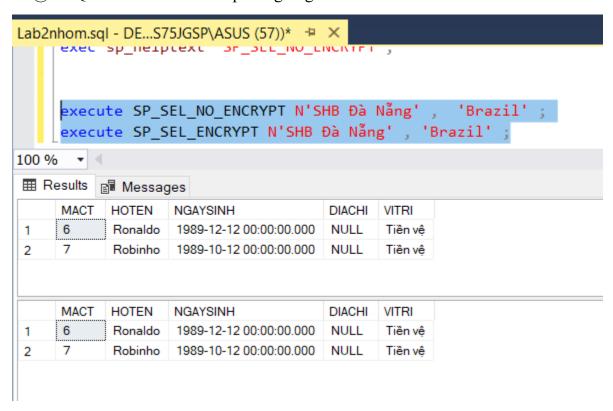
Trương Quang Sinh – 46.01.104.154

Bùi Thị Ánh Tuyết – 46.01.104.214

**3. Yêu cầu thực hành**

**e)**

```sql
--e)
create proc SP_SEL_NO_ENCRYPT
(
    @tenclb NVARCHAR(100),
    @tenqg NVARCHAR(100)
)
As
    Begin
        select CT.MACT, CT.HOTEN, CT.NGAYSINH, CT.DIACHI, CT.VITRI
        from CAUTHU CT join CAULACBO CLB on CT.MACLB = CLB.MACLB
                       join QUOCGIA QG on CT.MAQG = QG.MAQG
        where CLB.TENCLB = @tenclb and QG.TENQG = @tenqg
    END
```

**f)**

```sql
--f)
create proc SP_SEL_ENCRYPT @tenclb NVARCHAR(100), @tenqg NVARCHAR(100)
with ENCRYPTION
As
    Begin
        select CT.MACT, CT.HOTEN, CT.NGAYSINH, CT.DIACHI, CT.VITRI
        from dbo.CAUTHU CT join dbo.CAULACBO CLB on CT.MACLB = CLB.MACLB
                           join dbo.QUOCGIA QG on CT.MAQG = QG.MAQG
        where CLB.TENCLB = @tenclb and QG.TENQG = @tenqg
    End
go
```

**g)**

Thực thi 2 stored procedure trên với tham số truyền vào @TenCLB = "SHB Đà Nẵng"
và @TenQG = "Brazil" thì kết quả là giống nhau

```
Lab2nhom.sql - DE...S75JGSP\ASUS (57))*  ⊣ ✕
      exec sp_neiptext SP_SEL_NO_ENCRYPT ;

      execute SP_SEL_NO_ENCRYPT N'SHB Đà Nẵng' ,  'Brazil' ;
      execute SP_SEL_ENCRYPT N'SHB Đà Nẵng' ,  'Brazil' ;
```

100 %   ▼ ◀

⊞ Results  ▤ Messages

|   | MACT | HOTEN | NGAYSINH | DIACHI | VITRI |
|---|------|-------|----------|--------|-------|
| 1 | 6 | Ronaldo | 1989-12-12 00:00:00.000 | NULL | Tiền vệ |
| 2 | 7 | Robinho | 1989-10-12 00:00:00.000 | NULL | Tiền vệ |

|   | MACT | HOTEN | NGAYSINH | DIACHI | VITRI |
|---|------|-------|----------|--------|-------|
| 1 | 6 | Ronaldo | 1989-12-12 00:00:00.000 | NULL | Tiền vệ |
| 2 | 7 | Robinho | 1989-10-12 00:00:00.000 | NULL | Tiền vệ |

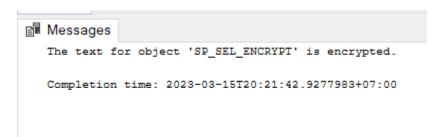Dùng lệnh sp_helptext để xem cấu trúc của stored procedure

```
exec sp_helptext 'SP_SEL_ENCRYPT';
exec sp_helptext 'SP_SEL_NO_ENCRYPT';
```

- Kết quả

Với NO_ENCRYPT

| | Text |
|---|---|
| 1 | CREATE proc SP_SEL_NO_ENCRYPT |
| 2 | ( |
| 3 | @tenclb NVARCHAR(100), |
| 4 | @tenqg NVARCHAR(100) |
| 5 | ) |
| 6 | As |
| 7 | Begin |
| 8 | select CT.MACT, CT.HOTEN, CT.NGAYSINH, CT.DIACHI, CT.... |
| 9 | join CAULACBO CLB on CT.MACLB = CLB.MACLB |
| 10 | join QUOCGIA QG on CT.MAQG = QG.MAQG |
| 11 | where CLB.TENCLB = @TenCLB and QG.TENQG = @TenQG |
| 12 | END |

Với ENCRYPT

```
The text for object 'SP_SEL_ENCRYPT' is encrypted.

Completion time: 2023-03-15T20:21:42.9277983+07:00
```

**Kết luận:** Ta nhận thấy cả 2 stored procedure ở bên trên đều trả ra kết quả như nhau. Nhưng khi sử dụng lệnh sp_helptext để xem đoạn code thì SP_SEL_ENCRYPT không xem được nội dung của stored procedure do đã được mã hóa

**h)** Tạo một bảng chứa các procedure_name rồi sau đó viết script alter procedure để bổ sung with encrypt

**i)**

A. Tạo View

```sql
]--h)
--vCau1
CREATE VIEW vCAU1 AS
SELECT MACT,HOTEN, DIACHI, VITRI, NGAYSINH
FROM CAUTHU CT join CAULACBO CLB on CT.MACLB= CLB.MACLB
            join QUOCGIA QG on QG.MAQG = CT.MAQG
WHERE QG.TENQG='Brazil' and CLB.TENCLB=N'SHB Đà Nẵng';

--vCau2
CREATE VIEW vCAU2 as
SELECT MATRAN, NGAYTD, clb1.TENCLB as TENCLB1,clb2.TENCLB as TENCLB2, SANVD.TENSAN,TRANDAU.KETQUA
from TRANDAU join CAULACBO as clb1 on TRANDAU.MACLB1=clb1.MACLB
                join CAULACBO as clb2 on TRANDAU.MACLB2=clb2.MACLB
                join SANVD on TRANDAU.MASAN=SANVD.MASAN
where TRANDAU.NAM='2009' and TRANDAU.VONG='3' and clb1.TENCLB!=clb2.TENCLB

--vCau3
create view vCau3 as
    select HLV.MAHLV, HLV.TENHLV, HLV.NGAYSINH, HLV.DIACHI, HLV_CLB.VAITRO, CLB.TENCLB
    from HLV_CLB  join HUANLUYENVIEN as HLV on HLV.MAHLV = HLV_CLB.MAHLV
                    join QUOCGIA as QG on HLV.MAQG = QG.MAQG
                    join CAULACBO as CLB on HLV_CLB.MACLB = CLB.MACLB
    where QG.TENQG like N'Việt Nam'

--vCau4
CREATE VIEW vCAU4 as
select CAULACBO.MACLB, CAULACBO.TENCLB, SANVD.TENSAN, SANVD.DIACHI, COUNT(CAULACBO.MACLB) as SOCAUTHUNUOCNGOAI
from CAUTHU join CAULACBO on CAUTHU.MACLB=CAULACBO.MACLB
            join SANVD on CAULACBO.MASAN=SANVD.MASAN
            join QUOCGIA on CAUTHU.MAQG=QUOCGIA.MAQG
where QUOCGIA.TENQG!=N'Việt Nam'
group by CAULACBO.MACLB,CAULACBO.TENCLB, SANVD.TENSAN, SANVD.DIACHI
having COUNT(CAULACBO.MACLB)>2

--vCau5
create view vCAU5 as
select TINH.TENTINH, count(ct.VITRI) as SOLUONGCAUTHUTIENDAO
from TINH join CAULACBO clb on clb.MATINH=TINH.MATINH
            join CAUTHU ct on ct.MACLB=clb.MACLB
where ct.VITRI=N'Tiền Đạo'
group by TINH.TENTINH

--vCau6
create view vCAU6 as
select CAULACBO.TENCLB, TINH.TENTINH
from BANGXH join CAULACBO on BANGXH.MACLB=CAULACBO.MACLB
            join TINH on CAULACBO.MATINH= TINH.MATINH
where BANGXH.VONG='3' and BANGXH.HANG='1'
```

```sql
--vCau7
create view vCau7 as
    select HLV.TENHLV
    from HLV_CLB join HUANLUYENVIEN as HLV on HLV_CLB.MAHLV = HLV.MAHLV
                 join CAULACBO as CLB on HLV_CLB.MACLB = CLB.MACLB
    where HLV.DIENTHOAI is null and HLV_CLB.VAITRO is not null


--vCau8
create view vCau8 as
    select HLV.TENHLV
    from HUANLUYENVIEN as HLV inner join QUOCGIA as QG on HLV.MAQG = QG.MAQG
    where QG.TENQG <> N'Việt Nam'
    except
    select HLV.TENHLV
    from HLV_CLB inner join HUANLUYENVIEN as HLV on HLV_CLB.MAHLV = HLV.MAHLV
                 inner join CAULACBO as CLB on HLV_CLB.MACLB = CLB.MACLB


--vCau9
create view vCau9 as
    select TD.NGAYTD, SVD.TENSAN, CLB1.TENCLB as TENCLB1, CLB2.TENCLB as TENCLB2, TD.KETQUA
    from TRANDAU as TD inner join SANVD as SVD on TD.MASAN = SVD.MASAN
                       inner join CAULACBO as CLB1 on TD.MACLB1 = CLB1.MACLB
                       inner join CAULACBO as CLB2 on TD.MACLB2 = CLB2.MACLB
                       inner join (select top(1) BANGXH.MACLB, BANGXH.VONG, BANGXH.NAM
                                   from BANGXH
                                   where BANGXH.VONG = 3 and BANGXH.NAM = 2009
                                   order by BANGXH.DIEM desc) as BXH on BXH.NAM >= TD.NAM and BXH.VONG >= TD.VONG and BXH.MACLB = TD.MACLB1
    union
    select TD.NGAYTD, SVD.TENSAN, CLB1.TENCLB as TENCLB1, CLB2.TENCLB as TENCLB2, TD.KETQUA
    from TRANDAU as TD inner join SANVD as SVD on TD.MASAN = SVD.MASAN
                       inner join CAULACBO as CLB1 on TD.MACLB1 = CLB1.MACLB
                       inner join CAULACBO as CLB2 on TD.MACLB2 = CLB2.MACLB
                       inner join (select top(1) BANGXH.MACLB, BANGXH.VONG, BANGXH.NAM
                                   from BANGXH
                                   where BANGXH.VONG = 3 and BANGXH.NAM = 2009
                                   order by BANGXH.DIEM desc) as BXH on BXH.NAM >= TD.NAM and BXH.VONG >= TD.VONG and BXH.MACLB = TD.MACLB2


--vCau10
create view vCau10 as
    select TD.NGAYTD, SVD.TENSAN, CLB1.TENCLB as TENCLB1, CLB2.TENCLB as TENCLB2, TD.KETQUA
    from TRANDAU as TD inner join SANVD as SVD on TD.MASAN = SVD.MASAN
                       inner join CAULACBO as CLB1 on TD.MACLB1 = CLB1.MACLB
                       inner join CAULACBO as CLB2 on TD.MACLB2 = CLB2.MACLB
                       inner join (select top(1) BANGXH.MACLB, BANGXH.VONG, BANGXH.NAM
                                   from BANGXH
                                   where BANGXH.VONG = 3 and BANGXH.NAM = 2009
                                   order by BANGXH.DIEM asc) as BXH on BXH.NAM >= TD.NAM and BXH.VONG >= TD.VONG and BXH.MACLB = TD.MACLB1
    union
    select TD.NGAYTD, SVD.TENSAN, CLB1.TENCLB as TENCLB1, CLB2.TENCLB as TENCLB2, TD.KETQUA
    from TRANDAU as TD inner join SANVD as SVD on TD.MASAN = SVD.MASAN
                       inner join CAULACBO as CLB1 on TD.MACLB1 = CLB1.MACLB
                       inner join CAULACBO as CLB2 on TD.MACLB2 = CLB2.MACLB
                       inner join (select top(1) BANGXH.MACLB, BANGXH.VONG, BANGXH.NAM
                                   from BANGXH
                                   where BANGXH.VONG = 3 and BANGXH.NAM = 2009
                                   order by BANGXH.DIEM asc) as BXH on BXH.NAM >= TD.NAM and BXH.VONG >= TD.VONG and BXH.MACLB = TD.MACLB2
```
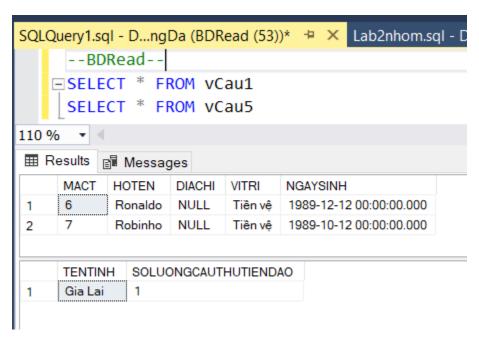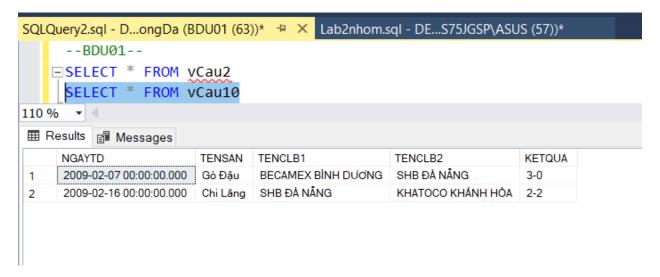
B. Phân quyền view cho các User

```
----grant view permission----
use QLBongDa
--BDRead--
grant select,view definition to BDRead
--BDU01
grant select,view definition on vCau5 to BDU01
grant select,view definition on vCau6 to BDU01
grant select,view definition on vCau7 to BDU01
grant select,view definition on vCau8 to BDU01
grant select,view definition on vCau9 to BDU01
grant select,view definition on vCau10 to BDU01

--BDU03
grant select,view definition on vCau1 to BDU03
grant select,view definition on vCau2 to BDU03
grant select,view definition on vCau3 to BDU03
grant select,view definition on vCau4 to BDU03

--BDU04
grant select,view definition on vCau1 to BDU04
grant select,view definition on vCau2 to BDU04
grant select,view definition on vCau3 to BDU04
grant select,view definition on vCau4 to BDU04
```

C. Test và kết quả

- BDRead



- BDU01

Ta thấy rằng BDU01 bị từ chối quyền truy cập vCau2 còn vCau10 hoạt động tốt.

Lý do là BDU01 không được phân quyền sử dụng vCau2.

- BDU03

- BDU04



```
--BDU04--
SELECT * FROM vCau1
SELECT * FROM vCau2
SELECT * FROM vCau3
SELECT * FROM vCau4
```

110 %

**Results** | **Messages**

| | MACT | HOTEN | DIACHI | VITRI | NGAYSINH |
|---|------|--------|--------|--------|----------------------|
| 1 | 6 | Ronaldo | NULL | Tiền vệ | 1989-12-12 00:00:00.000 |
| 2 | 7 | Robinho | NULL | Tiền vệ | 1989-10-12 00:00:00.000 |

| | MATRAN | NGAYTD | TENCLB1 | TENCLB2 | TENSAN | KETQUA |
|---|--------|--------------------------|--------------------|----------------------|-----------|--------|
| 1 | 5 | 2009-03-01 00:00:00.000 | THÉP PHÚ YÊN | GẠCH ĐỒNG TÂM LONG AN | Tuy Hòa | 0-2 |
| 2 | 6 | 2009-03-01 00:00:00.000 | KHATOCO KHÁNH HÒA | BECAMEX BÌNH DƯƠNG | Nha Trang | 0-1 |

| | MAHLV | TENHLV | NGAYSINH | DIACHI | TENCLB |
|---|-------|---------------|--------------------------|--------|----------------------|
| 1 | HLV02 | Lê Huỳnh Đức | 1972-05-20 00:00:00.000 | NULL | SHB ĐÀ NẴNG |
| 2 | HLV04 | Hoàng Anh Tuấn | 1970-06-10 00:00:00.000 | NULL | KHATOCO KHÁNH HÒA |
| 3 | HLV05 | Trần Công Minh | 1973-07-07 00:00:00.000 | NULL | GẠCH ĐỒNG TÂM LONG AN |
| 4 | HLV06 | Trần Văn Phúc | 1965-02-03 00:00:00.000 | NULL | BECAMEX BÌNH DƯƠNG |

| MACLB | TENCLB | TENSAN | DIACHI | SOLUONG |
|-------|--------|--------|--------|---------|

| STT | Tên User | Thực thi câu select | Giải thích kết quả |
|---|---|---|---|
| 1 | BDRead | SELECT * FROM vCau1<br>SELECT * FROM vCau5 | Thực thi được do user được phép truy xuất tất cả các view |
| 2 | BDU01 | SELECT * FROM vCau2<br>SELECT * FROM vCau10 | Thực thi được vCau10 nhưng không được vCau2 do user chỉ được phân quyền truy xuất từ vCau5=>vCau10 |
| 3 | BDU03 | SELECT * FROM vCau1<br>SELECT * FROM vCau2<br>SELECT * FROM vCau3<br>SELECT * FROM vCau4 | Thực thi được các view do được phân quyền truy xuất từ vCau1=>vCau4 |
| 4 | BDU04 | SELECT * FROM vCau1<br>SELECT * FROM vCau2<br>SELECT * FROM vCau3<br>SELECT * FROM vCau4 | Thực thi được các view do được phân quyền truy xuất từ vCau1 => vCau4 |

# j)

## A. Tạo Stored Procedure

```sql
--SPCau1
create proc SPCau1 @TenCLB NVARCHAR(100), @TenQG NVARCHAR(60)
as begin
        select CT.MACT, CT.HOTEN, CT.NGAYSINH, CT.DIACHI, CT.VITRI
        from CAUTHU as CT join CAULACBO on CT.MACLB = CAULACBO.MACLB
                          join QUOCGIA on CT.MAQG = QUOCGIA.MAQG
        where CAULACBO.TENCLB = @TenCLB and QUOCGIA.TENQG = @TenQG
    end

EXEC SPCau1 @TenCLB = N'SHB Đà Nẵng', @TenQG = N'Brazil';
go

--SPCau2
create proc SPCau2 @Vong int, @nam int
as begin
        SELECT MATRAN, NGAYTD, clb1.TENCLB as TENCLB1,clb2.TENCLB as TENCLB2, SANVD.TENSAN,TRANDAU.KETQUA
        from TRANDAU join CAULACBO as clb1 on TRANDAU.MACLB1=clb1.MACLB
                          join CAULACBO as clb2 on TRANDAU.MACLB2=clb2.MACLB
                          join SANVD on TRANDAU.MASAN=SANVD.MASAN
        where TRANDAU.NAM=@nam and TRANDAU.VONG=@vong and clb1.TENCLB!=clb2.TENCLB
    end
go

Exec SPCau2 @vong = '3', @nam = '2009'
go

--SPCau3
create proc SPCau3 @TenQG NVARCHAR(60)
as begin
        select HLV.MAHLV, HLV.TENHLV, HLV.NGAYSINH, HLV.DIACHI, HLV_CLB.VAITRO, CLB.TENCLB
        from HLV_CLB join HUANLUYENVIEN as HLV on HLV.MAHLV = HLV_CLB.MAHLV
                          join QUOCGIA as QG on HLV.MAQG = QG.MAQG
                          join CAULACBO as CLB on HLV_CLB.MACLB = CLB.MACLB
        where QG.TENQG = @TenQG
    end

exec spCau3 @tenqg = N'Việt Nam'
go

--SPCau4
CREATE proc spCau4  @TenQG NVARCHAR(60)
as begin
        select CAULACBO.MACLB, CAULACBO.TENCLB, SANVD.TENSAN, SANVD.DIACHI, COUNT(CAULACBO.MACLB) as SOCAUTHUNUOCNGOAI
        from CAUTHU join CAULACBO on CAUTHU.MACLB=CAULACBO.MACLB
                          join SANVD on CAULACBO.MASAN=SANVD.MASAN
                          join QUOCGIA on CAUTHU.MAQG=QUOCGIA.MAQG
        where QUOCGIA.TENQG!=@TenQG
        group by CAULACBO.MACLB,CAULACBO.TENCLB, SANVD.TENSAN, SANVD.DIACHI
        having COUNT(CAULACBO.MACLB)>2;
    end

exec spCau4 @tenqg  = N'Việt Nam'
go
```

```sql
--SPCau5
create proc SPCau5 @Vitri NVARCHAR(20)
as begin
        select TINH.TENTINH, count(ct.VITRI) as SOLUONGCAUTHUTIENDAO
        from TINH join CAULACBO clb on clb.MATINH=TINH.MATINH
                join CAUTHU ct on ct.MACLB=clb.MACLB
        where ct.VITRI=@Vitri
        group by TINH.TENTINH
    end

exec spCau5 @vitri = N'Tiền Đạo'
go


--SPCau6
create proc SPCau6 @Vong int, @Hang int
as begin
        select CAULACBO.TENCLB, TINH.TENTINH
        from BANGXH join CAULACBO on BANGXH.MACLB=CAULACBO.MACLB
                join TINH on CAULACBO.MATINH= TINH.MATINH
        where BANGXH.VONG=@Vong and BANGXH.HANG=@Hang
    end

exec SPCau6 @vong = '3', @hang = '1'
go
```
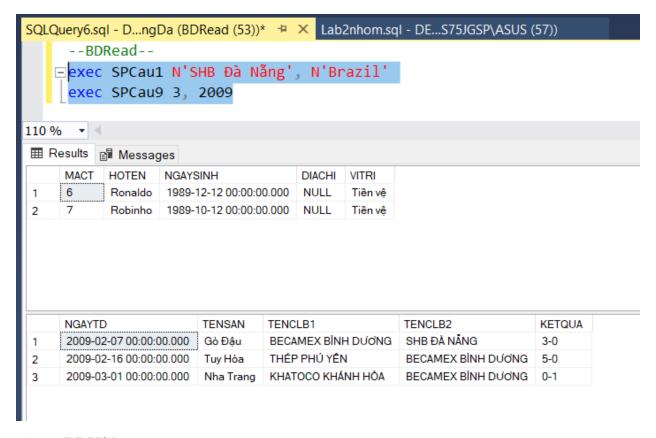
```sql
--SPCau7
create proc SPCau7 @VaiTro NVARCHAR(100)
as begin
        select HLV.TENHLV
        from HLV_CLB join HUANLUYENVIEN as HLV on HLV_CLB.MAHLV = HLV.MAHLV
                        join CAULACBO as CLB on HLV_CLB.MACLB = CLB.MACLB
        where HLV.DIENTHOAI is null and HLV_CLB.VAITRO = @VaiTro
    end
exec SPCau7 @VaiTro='HLV chính'
go

--SPCau8
create proc SPCau8 @tenqg NVARCHAR(100)
as begin
        select HLV.TENHLV
        from HUANLUYENVIEN as HLV inner join QUOCGIA as QG on HLV.MAQG = QG.MAQG
        where QG.TENQG <> @tenqg
        except
        select HLV.TENHLV
        from HLV_CLB inner join HUANLUYENVIEN as HLV on HLV_CLB.MAHLV = HLV.MAHLV
                        inner join CAULACBO as CLB on HLV_CLB.MACLB = CLB.MACLB
    end

exec spCau8  @tenqg = N'Việt Nam'
go

--SPCau9
create proc SPCau9 @Vong int, @Nam int
as begin
    select TD.NGAYTD, SVD.TENSAN, CLB1.TENCLB as TENCLB1, CLB2.TENCLB as TENCLB2, TD.KETQUA
    from TRANDAU as TD inner join SANVD as SVD on TD.MASAN = SVD.MASAN
                    inner join CAULACBO as CLB1 on TD.MACLB1 = CLB1.MACLB
                    inner join CAULACBO as CLB2 on TD.MACLB2 = CLB2.MACLB
                    inner join (select top(1) BANGXH.MACLB, BANGXH.VONG, BANGXH.NAM
                                from BANGXH
                                where BANGXH.VONG = @Vong and BANGXH.NAM = @Nam
                                order by BANGXH.DIEM desc) as BXH on BXH.NAM >= TD.NAM and BXH.VONG >= TD.VONG and BXH.MACLB = TD.MACLB1
    union
    select TD.NGAYTD, SVD.TENSAN, CLB1.TENCLB as TENCLB1, CLB2.TENCLB as TENCLB2, TD.KETQUA
    from TRANDAU as TD inner join SANVD as SVD on TD.MASAN = SVD.MASAN
                    inner join CAULACBO as CLB1 on TD.MACLB1 = CLB1.MACLB
                    inner join CAULACBO as CLB2 on TD.MACLB2 = CLB2.MACLB
                    inner join (select top(1) BANGXH.MACLB, BANGXH.VONG, BANGXH.NAM
                                from BANGXH
                                where BANGXH.VONG = @Vong and BANGXH.NAM = @Nam
                                order by BANGXH.DIEM desc) as BXH on BXH.NAM >= TD.NAM and BXH.VONG >= TD.VONG and BXH.MACLB = TD.MACLB2
    end
exec spCau9 @Vong = '3' , @Nam = '2009'
go
```
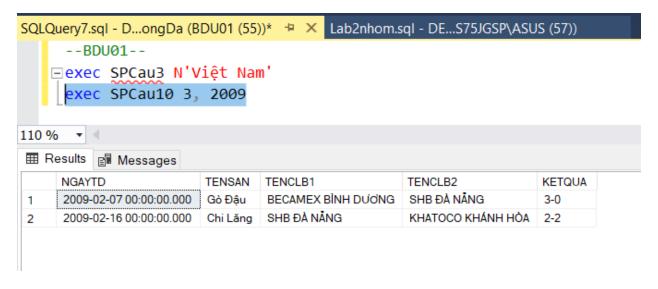
```sql
--SPCau10
create proc SPCau10 @Vong int, @Nam int
as begin
    select TD.NGAYTD, SVD.TENSAN, CLB1.TENCLB as TENCLB1, CLB2.TENCLB as TENCLB2, TD.KETQUA
    from TRANDAU as TD inner join SANVD as SVD on TD.MASAN = SVD.MASAN
                       inner join CAULACBO as CLB1 on TD.MACLB1 = CLB1.MACLB
                       inner join CAULACBO as CLB2 on TD.MACLB2 = CLB2.MACLB
                       inner join (select top(1) BANGXH.MACLB, BANGXH.VONG, BANGXH.NAM
                                    from BANGXH
                                    where BANGXH.VONG = @Vong and BANGXH.NAM = @Nam
                                    order by BANGXH.DIEM asc) as BXH on BXH.NAM >= TD.NAM and BXH.VONG >= TD.VONG and BXH.MACLB = TD.MACLB1
    union
    select TD.NGAYTD, SVD.TENSAN, CLB1.TENCLB as TENCLB1, CLB2.TENCLB as TENCLB2, TD.KETQUA
    from TRANDAU as TD inner join SANVD as SVD on TD.MASAN = SVD.MASAN
                       inner join CAULACBO as CLB1 on TD.MACLB1 = CLB1.MACLB
                       inner join CAULACBO as CLB2 on TD.MACLB2 = CLB2.MACLB
                       inner join (select top(1) BANGXH.MACLB, BANGXH.VONG, BANGXH.NAM
                                    from BANGXH
                                    where BANGXH.VONG = @Vong and BANGXH.NAM = @Nam
                                    order by BANGXH.DIEM asc) as BXH on BXH.NAM >= TD.NAM and BXH.VONG >= TD.VONG and BXH.MACLB = TD.MACLB2

    end

exec spCau10 @vong = '3', @nam = '2009'
go
```

B. Phân quyền stored procedure cho các user

```sql
--grant stored procedure permission--
use QLBongDa
--BDRead--
grant execute to BDRead


--BDU01

grant execute on object::SPCAU5 to BDU01
grant execute on object::SPCau6 to BDU01
grant execute on object::SPCau7 to BDU01
grant execute on object::SPCau8 to BDU01
grant execute on object::SPCau9 to BDU01
grant execute on object::SPCau10 to BDU01


--BDU03
grant execute on object::SPCau1 to BDU03
grant execute on object::SPCau2 to BDU03
grant execute on object::SPCau3 to BDU03
grant execute on object::SPCau4 to BDU03


--BDU04
grant execute on object::SPCau1 to BDU04
grant execute on object::SPCau2 to BDU04
grant execute on object::SPCau3 to BDU04
grant execute on object::SPCau4 to BDU04
```

C. Test và kết quả

- BDRead



- BDU01

- BDU03

## SQLQuery8.sql - D...ongDa (BDU03 (59))*    Lab2nhom.sql - DE...S75JGSP\ASUS (57))

```sql
--BDU03--
exec SPCau1 N'SHB Đà Nẵng', N'Brazil'
exec SPCau3 N'Việt Nam'
exec SPCau4 N'Việt Nam'
exec SPCau10 3, 2009
```

110 %

**Results** | **Messages**

|   | MACT | HOTEN   | NGAYSINH                | DIACHI | VITRI   |
|---|------|---------|-------------------------|--------|---------|
| 1 | 6    | Ronaldo | 1989-12-12 00:00:00.000 | NULL   | Tiền vệ |
| 2 | 7    | Robinho | 1989-10-12 00:00:00.000 | NULL   | Tiền vệ |

|   | MAHLV | TENHLV        | NGAYSINH                | DIACHI | VAITRO      | TENCLB                |
|---|-------|---------------|-------------------------|--------|-------------|-----------------------|
| 1 | HLV02 | Lê Huỳnh Đức  | 1972-05-20 00:00:00.000 | NULL   | HLV Chính   | SHB ĐÀ NẴNG           |
| 2 | HLV04 | Hoàng Anh Tuấn| 1970-06-10 00:00:00.000 | NULL   | HLV Chính   | KHATOCO KHÁNH HÒA     |
| 3 | HLV05 | Trần Công Minh| 1973-07-07 00:00:00.000 | NULL   | HLV Chính   | GẠCH ĐỒNG TÂM LONG AN |
| 4 | HLV06 | Trần Văn Phúc | 1965-02-03 00:00:00.000 | NULL   | HLV thủ môn | BECAMEX BÌNH DƯƠNG    |

| MACLB | TENCLB | TENSAN | DIACHI | SOCAUTHUNUOCNGOAI |
|-------|--------|--------|--------|-------------------|

- BDU04

## SQLQuery9.sql - D...ongDa (BDU04 (56))*    Lab2nhom.sql - DE...S75JGSP\ASUS (57))

```sql
--BDU04--
exec SPCau1 N'SHB Đà Nẵng', N'Brazil'
exec SPCau3 N'Việt Nam'
exec SPCau4 N'Việt Nam'
exec SPCau10 3, 2009
```

110 %

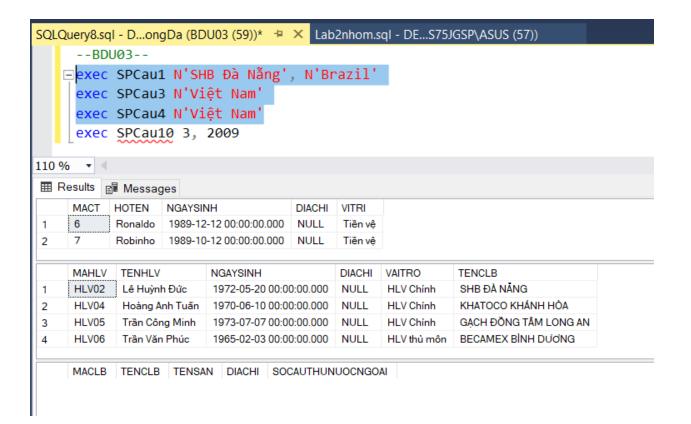**Results** | **Messages**

```
(2 rows affected)

(4 rows affected)

(0 rows affected)
Msg 229, Level 14, State 5, Procedure SPCau10, Line 1 [Batch Start Line 1]
The EXECUTE permission was denied on the object 'SPCau10', database 'QLBongDa', schema 'dbo'.

Completion time: 2023-03-15T21:51:22.1384321+07:00
```

```
--BDU04--
exec SPCau1 N'SHB Đà Nẵng', N'Brazil'
exec SPCau3 N'Việt Nam'
exec SPCau4 N'Việt Nam'
exec SPCau10 3, 2009
```

110 %

Results | Messages

| | MACT | HOTEN | NGAYSINH | DIACHI | VITRI |
|---|---|---|---|---|---|
| 1 | 6 | Ronaldo | 1989-12-12 00:00:00.000 | NULL | Tiền vệ |
| 2 | 7 | Robinho | 1989-10-12 00:00:00.000 | NULL | Tiền vệ |

| | MAHLV | TENHLV | NGAYSINH | DIACHI | VAITRO | TENCLB |
|---|---|---|---|---|---|---|
| 1 | HLV02 | Lê Huỳnh Đức | 1972-05-20 00:00:00.000 | NULL | HLV Chính | SHB ĐÀ NẴNG |
| 2 | HLV04 | Hoàng Anh Tuấn | 1970-06-10 00:00:00.000 | NULL | HLV Chính | KHATOCO KHÁNH HÒA |
| 3 | HLV05 | Trần Công Minh | 1973-07-07 00:00:00.000 | NULL | HLV Chính | GẠCH ĐỒNG TÂM LONG AN |
| 4 | HLV06 | Trần Văn Phúc | 1965-02-03 00:00:00.000 | NULL | HLV thủ môn | BECAMEX BÌNH DƯƠNG |

| MACLB | TENCLB | TENSAN | DIACHI | SOCAUTHUNUOCNGOAI |
|---|---|---|---|---|

| STT | Tên User | Thực thi câu select | Giải thích kết quả |
|---|---|---|---|
| 1 | BDRead | EXEC SPCau1 'SHB Đà Nẵng', 'Brazil' <br> EXEC SPCau9 3, 2009 | Thực thi được do user được phép thực thi tất cả các stored procedure |
| 2 | BDU01 | EXEC SPCau3 'Việt Nam' <br> EXEC SPCau10 3, 2009 | Thực thi được SPCau10 nhưng không được SPCau3 do user chỉ được phân quyền thực thi từ SPCau5=>SPCau10 |
| 3 | BDU03 | EXEC SPCau1 'SHB Đà Nẵng', 'Brazil' <br> EXEC SPCau10 3, 2009 <br> EXEC SPCau3 'Việt Nam' <br> EXEC SPCau4 'Việt Nam' | Các stored procedure SPCau1, SPCau3, SPCau4 đều được thực thi trừ SPCau10 do user chỉ được phân quyền thực thi từ SPCau1=>SPCau4 |
| 4 | BDU04 | EXEC SPCau1 'SHB Đà Nẵng', 'Brazil' <br> EXEC SPCau10 3, 2009 <br> EXEC SPCau3 'Việt Nam' <br> EXEC SPCau4 'Việt Nam' | Các stored procedure SPCau1, SPCau3, SPCau4 đều được thực thi trừ SPCau10 do user chỉ được phân quyền thực thi từ SPCau1=>SPCau4 |