

# COMP 2700

# Database Management

# Systems I

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# 1

```
DECLARE
    v_deptno myDepartment.deptno%type;
    v_loc myDepartment.loc%type;
BEGIN
    SELECT deptNo, loc INTO v_deptno, v_loc
    FROM myDepartment
    WHERE dName = 'Sales';
END;
/
```

# 2

```
-- before
SELECT sal, jobtitle
FROM myEmployee;

-- code
DECLARE
    v_increase constant NUMBER := 500;
BEGIN
    UPDATE myEmployee
    SET sal = sal + v_increase
    WHERE jobTitle = 'MANAGER';
END;
/

-- after
SELECT sal, jobtitle
FROM myEmployee;
```

# 3

```
-- 3
```

```
DECLARE
```

```
    temp_mgr myEmployee.mgr%type;
```

```
BEGIN
```

```
    SELECT mgr INTO temp_mgr
```

```
    FROM myEmployee
```

```
    WHERE empId = 7499;
```

```
    IF (temp_mgr = 7689) THEN
```

```
        UPDATE myEmployee
```

```
        SET mgr = 7782
```

```
        WHERE empID = 7499;
```

```
    END IF;
```

```
END;
```

```
/
```

4

```
ALTER TABLE Product  
ADD (reorderStatus CHAR(1) DEFAULT '0');
```

# 5

```
-- (i)
CREATE OR REPLACE TRIGGER updateStatus
BEFORE INSERT OR UPDATE OF unitsInStock, reorderlevel
ON Product
FOR EACH ROW
BEGIN
    IF (:new.unitsInStock <= :new.reorderlevel) THEN
        :new.reorderStatus := '1';
    ELSE
        :new.reorderStatus := '0';
    END IF;
END;
```

# 5 (ii)

```
select *  
from product  
where productid='ORP55';
```

```
update product  
set unitsinstock=5  
where productid='ORP55';
```

```
select *  
from product  
where productid='ORP55';
```

# 5 (iii)

```
insert into  
product values('CD123', 'CD WRITER', 'CCS', 99.09, 4, 10, 'N', 8, 0);
```

```
select * from product;
```



# 6

```
CREATE OR REPLACE PROCEDURE ProductSale
(productCode in VARCHAR2, qtySold in NUMBER)
AS
BEGIN
    UPDATE Product
    SET unitsInStock = unitsInStock - qtySold
    WHERE productID = productCode;
END;
```

# 7

```
begin  
productsale('ORP55',2);  
end;  
/  
  
select *  
from product  
where productid='ORP55';
```

# 8

```
CREATE OR REPLACE PROCEDURE ProductPurchase
(productCode in VARCHAR2, qtySold in NUMBER)
AS
BEGIN
    UPDATE Product
    SET unitsInStock = unitsInStock + qtySold
    WHERE productID = productCode;
END;
```

# 9

```
begin  
productpurchase('ORP55',25);  
end;
```

```
select *  
from product  
where productid='ORP55';
```