```
1.a) CREATE TABLE Staff(
staffID INT GENERATED ALWAYS as IDENTITY(START WITH 1 INCREMENT by 1),
staffName VARCHAR(20),
staffSurname VARCHAR(20),
DOB Date NOT NULL,
staffBranchNo,
salary DECIMAL(7,2),
startDateOfWork Date,
PRIMARY KEY (staffID),
FOREIGN KEY (staffBranchNo) REFERENCES Branch
);
b)CREATE TABLE Branch(
branchNo INT GENERATED ALWAYS as IDENTITY(START WITH 1 INCREMENT by
1),
branchCity VARCHAR(20),
branchTotalStaffNumber INT,
PRIMARY KEY (branchNo)
);
c)CREATE TABLE Sales(
saleID INT GENERATED ALWAYS as IDENTITY(START WITH 1 INCREMENT by 1),
orderID INT,
sellerID INT,
orderTotal DECIMAL(7,2),
PRIMARY KEY (saleID),
FOREIGN KEY (sellerID) REFERENCES LOGS
);
```

```
d) CREATE TABLE Logs(
logID INT GENERATED ALWAYS as IDENTITY(START WITH 1 INCREMENT by 1),
logType VARCHAR(10) NOT NULL,
relatedTable VARCHAR(10) NOT NULL,
relatedID INT NOT NULL,
logTime TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
PRIMARY KEY (logID)
);
2) CREATE OR REPLACE Trigger Branch_Guncelleme AFTER INSERT or UPDATE or
DELETE ON Staff
BEGIN
  Update Branch Set branchTotalStaffNumber = (SELECT Count(staffBranchNo) FROM
Staff WHERE staffBranchNo=branchNo GROUP BY staffBranchNo );
END;
3) CREATE OR REPLACE PROCEDURE maas_arttir (staff_ID INT,year INT)
AS
BEGIN
IF year<3 THEN
UPDATE Staff SET salary=salary+salary*0.04
WHERE staffID=staff_ID;
END IF:
IF year>=3 and year<6 THEN
UPDATE Staff SET salary=salary+salary*0.06
WHERE staffID=staff_ID;
END IF;
IF year>=6 THEN
UPDATE Staff SET salary=salary+salary*0.08
WHERE staffID=staff_ID;
END IF;
```

```
END;
<u>4)</u>
                             ---STAFF TABLOSU İÇİN LOGLAMA---
CREATE OR REPLACE Trigger log_staff AFTER INSERT or UPDATE or DELETE on
Staff
FOR EACH ROW
Begin
  if Inserting Then
     Insert into Logs(logType,relatedTable,relatedID) VALUES ('insert', 'staff', :new.staffId);
  end if;
  if Updating Then
     Insert into Logs(logType,relatedTable,relatedID) VALUES ('update', 'staff',
:new.staffId);
  end if:
  if Deleting Then
    Insert into Logs(logType,relatedTable,relatedID) VALUES ('delete', 'staff', :new.staffId);
  end if;
End;
                             ---SALES TABLOSU İÇİN LOGLAMA---
CREATE OR REPLACE Trigger log_sales AFTER INSERT or UPDATE or DELETE on
Sales
FOR EACH ROW
Begin
  if Inserting Then
     Insert into Logs(logType,relatedTable,relatedID) VALUES ('insert', 'sales', :new.saleID);
  end if;
  if Updating Then
     Insert into Logs(logType,relatedTable,relatedID) VALUES ('update', 'sales',
:new.saleID);
  end if;
```

```
if Deleting Then
    Insert into Logs(logType,relatedTable,relatedID) VALUES ('delete', 'sales',
:new.saleID);
  end if;
end;
                           ---BRANCH TABLOSU İÇİN LOGLAMA---
CREATE OR REPLACE Trigger log_branch AFTER INSERT or UPDATE or DELETE on
Branch
FOR EACH ROW
Begin
  if Inserting Then
    Insert INTO Logs(logType,relatedTable,relatedID) VALUES ('insert', 'branch',
:new.branchNo);
  end if;
   if Updating Then
    Insert INTO Logs(logType,relatedTable,relatedID) VALUES ('update', 'branch',
:new.branchNo);
  end if;
  if Deleting Then
    Insert INTO Logs(logType,relatedTable,relatedID) VALUES ('delete', 'branch',
:new.branchNo);
  end if;
end;
```

5) REVOKE all on Logs FROM PUBLIC;