

CSE 4308  
LAB 11

```
CREATE TABLE STUDENTS (  
    ID NUMBER PRIMARY KEY,  
    AGE NUMBER  
);  
CREATE TABLE TEACHER (  
    ID NUMBER PRIMARY KEY,  
    NAME VARCHAR2 (30),  
    SALARY NUMBER  
);  
  
INSERT INTO TEACHER VALUES (1,'MIKE', 50000);  
INSERT INTO TEACHER VALUES (2,'BRAD', 45000);  
INSERT INTO TEACHER VALUES (3,'BRUCE', 60000);  
INSERT INTO TEACHER VALUES (4,'PETER', 30000);
```

TASK1:

Create a PL/SQL function 'salaryLevel' which will take the teacherID as input and return a comment on the salary value.

Salary less than 32000 is considered 'below average', within 32000-50000 is considered 'average' and above that is 'High';

Suppose ID=3 is given as an input of the function. The output should be in the following format:

"The salary level of Mr. Bruce is 60000 and it's High!"

TASK2:

Suppose IUT stores the student and teacher information in the above mentioned tables.

The Department head can SELECT, INSERT, UPDATE, DELETE in both of the tables

The Assistant Programmers can SELECT, INSERT and UPDATE both tables.

The Secretary can only SELECT the information of the tables.

The Teachers however have all the privileges of the secretary and additionally they can insert into the TEACHER table.

Now Create 4 appropriate roles for the 4 type of users.

[The Role for the teacher must contain the ROLE of the secretary at first and then you will add more privileges. ]

With necessary explanations and Query, prove that your role is satisfying the requirements of the scenario.

TASK3:

Create TRIGGERS which will print a message

"INSERTED" after the user inserts some data into the table.

"UPDATED" after the user updates some data in the table.

"DELETED" after the user deletes some data from the table.