Assignment - 8.2D

1.

```
CREATE OR REPLACE TRIGGER TRG_UPDATE_CUST_BALANCE
AFTER INSERT ON INVOICE
FOR EACH ROW
BEGIN
        UPDATE CUSTOMER
        SET CUST_BALANCE = CUST_BALANCE +: NEW.INV_AMOUNT
        WHERE CUST_NUM =: NEW.CUST_NUM;
END;
/
```

To Test it:

```
SELECT * FROM CUSTOMER;
INSERT INTO INVOICE VALUES (8005,1001,’27-Apr-2016’,225.40);
SELECT * FROM CUSTOMER;
```

2.

```
CREATE OR REPLACE PROCEDURE PRC_ADD_CUSTOMER (
       CUST_NUM IN CUSTOMER.CUST_NUM%TYPE,
       CUST_LNAME IN CUSTOMER.CUST_LNAME%TYPE,
       CUST_FNAME IN CUSTOMER.CUST_FNAME%TYPE,
       CUST_BALANCE IN CUSTOMER.CUST_BALANCE%TYPE
)
AS
BEGIN
        INSERT INTO CUSTOMER (CUST_NUM, CUST_LNAME, CUST_FNAME, CUST_BALANCE)
        VALUES (CUST_NUM, CUST_LNAME, CUST_FNAME, CUST_BALANCE);
        COMMIT;
        DBMS_OUTPUT.PUT_LINE (‘Customer added successfully’);
END;
/
```

To Test it:

```
SELECT * FROM CUSTOMER;
EXEC PRC_ADD_CUSTOMER (1002, 'Rauthor', 'Peter', 0.0);
SELECT * FROM CUSTOMER;
```

3.

```
CREATE OR REPLACE PROCEDURE PRC_ADD_INVOICE (
      INV_NUM IN INVOICE.INV_NUM%TYPE,
      CUST_NUM IN INVOICE.CUST_NUM%TYPE,
      INV_DATE IN INVOICE.INV_DATE%TYPE,
      INV_AMOUNT IN INVOICE.INV_AMOUNT%TYPE
)
AS
BEGIN
     INSERT INTO INVOICE (INV_NUM, CUST_NUM, INV_DATE, INV_AMOUNT)
     VALUES (INV_NUM, CUST_NUM, TO_DATE (INV_DATE, ‘DD-MM-YYYY’), INV_AMOUNT);
     COMMIT;
     DBMS_OUTPUT.PUT_LINE (‘Invoice added successfully’);
END;
/
```

To Test it:

```
SELECT * FROM CUSTOMER;
SELECT * FROM INVOICE;
EXEC PRC_ADD_INVOICE (8006, 1002, ’29-Apr-2016’, 175.85);
SELECT * FROM INVOICE;
SELECT * FROM CUSTOMER;
```

```
4.  CREATE OR REPLACE FUNCTION get_invoice_count (
    cust_num_param IN INVOICE.CUST_NUM%TYPE
    ) RETURN NUMBER
    IS
       Invoice_count NUMBER;
    BEGIN
       SELECT COUNT (*) INTO invoice_count
       FROM INVOICE
       WHERE CUST_NUM = cust_num_param;

       RETURN invoice_count;
    END;
    /
```

To Test it:

```
SELECT get_invoice_count (0) FROM DUAL;
SELECT get_invoice_count (1000) FROM DUAL;
SELECT get_invoice_count (1005) FROM DUAL;
```