**CODING SNIPPET:**

**--**1**.** Create a table myemp for the following specification.

CREATE TABLE

MYEMP(ENO INTEGER(4) NOT NULL PRIMARY KEY,

ENAME VARCHAR(30) NOT NULL ,

ESAL DECIMAL(8,2) ,

DEPTNO INTEGER(4)NOT NULL );

Load the table with any 5 records and do the following

INSERT INTO MYEMP VALUES(101,'SHINY',25000,222,2,678),

(102,'DEV',5000,223,3,78),

(103,'KUMAR',45000,224,4,0),

(104,'DEEPA',57000,225,5,0),

(105,'DEV',4000,223,6,677);

1. Add a new column experience with number datatype and with not null constraint.

ALTER TABLE MYEMP ADD EXPERIENCE INTEGER(2) NOT NULL;

1. update esal column of the table with null values whose esal value is between 5000-10000.

UPDATE MYEMP SET ESAL=NULL WHERE ESAL BETWEEN 5000 AND 10000;

--2.Add a new column comm in myemp with some null and not null values.

ALTER TABLE MYEMP ADD COMM INTEGER(4);

Create a new table ‘empcommnul’ by moving all null value-based rows from myemp to empcommnull.

CREATE TABLE EMPCOMMNUL AS SELECT \* FROM MYEMP WHERE COMM=NULL ;

DELETE FROM MYEMP WHERE COMM=NULL;

--3. In myemp table, based on the following scenario, “Employees can work in one or more department”. Make suitable changes in the structure to accommodate the above said scenario based values.

INSERT INTO MYEMP VALUES(101,'SHINY',25000,222,2,678),

(102,'DEV',5000,223,3,78),

(103,'KUMAR',45000,224,4,0),

(104,'DEEPA',57000,225,5,0),

(105,'DEV',4000,223,6,677);

--4. create a trigger with your own name for enforcing a constraint on insert or delete or update operations on of all columns of myemp by denying the said operations on weekend days(Saturday and Sunday) with message ‘Sorry Access on week-end days is denied’.

CREATE OR REPLACE TRIGGER weekend1\_trigger

BEFORE INSERT OR UPDATE OR DELETE on myemp

FOR EACH ROW

DECLARE

v\_day DATE := TRUNC(SYSDATE);

ex\_invalid EXCEPTION;

BEGIN

IF TO\_CHAR(v\_day,'DY')IN ('SAT','SUN') THEN

RAISE ex\_invalid;

END IF;

EXCEPTION

WHEN ex\_invalid THEN

RAISE\_APPLICATION\_ERROR(-20001,'Sorry Access on week-end days is denied');

END;

--5. Write any PL/SQL block which handles others exception in which reflects the error code and error message of the occurring exception.

CREATE TABLE DEPART3

(DEPART\_ID NUMBER(4) NOT NULL PRIMARY KEY,

DEPART\_NAME VARCHAR(30)NOT NULL ,

MANAGER\_ID NUMBER (6) UNIQUE

);

INSERT INTO DEPART3 VALUES(10,'Purchase ',123);

INSERT INTO DEPART3 VALUES(20,'Inventory ',345);

INSERT INTO DEPART3 VALUES(30,'Sales',567);

INSERT INTO DEPART3 VALUES(40,'Materials ',789);

INSERT INTO DEPART3 VALUES(50,'Production ',911);

DECLARE

d\_id depart3.depart\_id%type := 5;

d\_name depart3.depart\_name%type;

d\_mid depart3.manager\_id%type;

BEGIN

SELECT depart\_id,depart\_name,manager\_id into d\_id,d\_name,d\_mid from depart3

WHERE depart\_id=d\_id;

DBMS\_OUTPUT.PUT\_LINE ('Dept Id: '|| d\_id);

DBMS\_OUTPUT.PUT\_LINE ('Dept Name: '|| d\_name);

DBMS\_OUTPUT.PUT\_LINE ('Manager Id: ' || d\_mid);

EXCEPTION

WHEN no\_data\_found THEN

dbms\_output.put\_line('No such Record with Dept\_Id =5!');

WHEN others THEN

dbms\_output.put\_line('Error!');

END;

/

-- Create a table EBILL for the following specification.

CREATE TABLE

EBILL(ECNO VARCHAR(10) NOT NULL PRIMARY KEY,

CNAME VARCHAR(30) NOT NULL ,

NOUNITS INTEGER(4) NOT NULL,

BAMT DECIMAL(8,2));

INSERT INTO EBILL VALUES(120,'SWEETY',234),

(121,'SHARON',256),

(122,'DEV',789),

(123,'KIRAN',444),

(124,'RAM',267);

DELIMITER //

create procedure ebillp(in x varchar(10), out y decimal(8,2))

begin

declare done boolean default 0;

declare units int(4);

declare curs cursor for

select ncounts from ebill where cno=x;

open curs;

fetch curs into units;

if units>200 then

set y=(units-200)\*1.5+150;

elseif units>100 and units<200 then

set y=(units-100)\*1.5+50;

else

set y=units\*0.5;

end if;

close curs;

update ebill set bamt=y where cno=x;

select \* from ebill where cno=x;

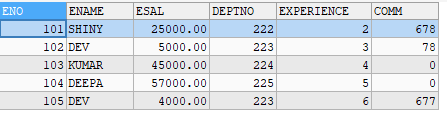
end //

call ebillp('c1', @zz);

**OUTPUT SCREENSHOTS:**

1.





(a)



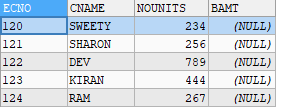
2.



5.



6.



-- cno, cname, nounits, bamt

-- 120 shiny 40 20.00