

# FUNCTION

## I. User\_Validity

```
create or replace function user_validity (customer_id in customer.cus_id%type) return
varchar2 as
uname varchar2(50);
begin
select user_name into uname from customer where cus_id=customer_id;
return uname ;
exception
when no_data_found then
uname := null;
return uname ;
end;
```

## II. Find\_Card\_Id

```
create or replace function find_card_id (customer_id in customer.cus_id%type) return number as
id number;
uname varchar2(20);
begin
uname := user_validity(customer_id);
if uname is null then
dbms_output.put_line('No valid user plz check id again');
else
select card_id into id from customer where cus_id=customer_id;
end if;
return id ;
exception
when no_data_found then
dbms_output.put_line('There is something is worngplz check the id....');
id:=null;
return id;
end;
```

## III. Card\_Fine

```
create or replace function card_fine(card_id in card.c_id%type ) return number as
total_fine NUMBER;
issue date;
ret date;
begin
select fine,issue_date, return_date into total_fine,issue,ret from card where c_id=card_id;
if total_fine> 0 then
dbms_output.put_line('last issue date is....' || issue);
dbms_output.put_line('last return date is....' || ret);
end if;
return total_fine;
exception
```

```

        when no_data_found then
            total_fine:= 'No id '||card_id||' found';
            return total_fine;
        end;

```

#### IV. Card\_Velocity

```

create or replace function card_velocity (card_id in card.c_id%type) return varchar2 as
c_status varchar2(50);
begin
    select status into c_status from card where c_id=card_id;
    return c_status;
exception
    when no_data_found then
        c_status := 'No id '||card_id||' found';
        return c_status;
end;

```

#### V. Fine\_From\_Cus\_Id

```

create or replace function fine_from_cus_id(customer_id incustomer.cus_id%type) return
varchar2 as
flag varchar2(6);
card_id number;
card_fine_rup number;
valid varchar2(10);
begin
    flag := 'false';
    valid := user_validity(customer_id);
    if valid is null then
        dbms_output.put_line(customer_id || ' does not exists....Please check again');
    else
        card_id :=find_card_id(customer_id);
        if card_id is null then
            dbms_output.put_line('Card id dpesnt not exists for '||customer_id ||
'....Please check again');
        else
            card_fine_rup := card_fine(card_id);
            if card_fine_rup> 0 then
                dbms_output.put_line('total fine is...'|| card_fine_rup);
                dbms_output.put_line('Plz pay first');
            else
                flag:='true';
            end if;
        end if;
    end if;
    return flag;
end ;

```

## VI. Book\_Find

```
create or replace function book_find (  
    book_name in book.b_name%type,  
    avail out book.availability%type) return number as id number;  
  
begin  
    select      book_id,availability      into      id,avail      from      book      where  
        b_name=upper(book_name || ':the book');  
return id;  
exception  
when no_data_found then  
    id := 0;  
    avail :=0;  
    return id;  
end;
```

## VII. Video\_Find

```
create or replace function video_find (  
    video_name in video.v_name%type,  
    avail out book.availability%type) return number as id number;  
  
begin  
    select      video_id,availability      into      id,avail      from      video      where  
        v_name=upper(video_name || ':the video');  
return id;  
exception  
when no_data_found then  
    id := 0;  
    avail :=0;  
    return id;  
end;
```