SQL DOCUMENTATION

1. USERS TABLE:

create table users (id varchar2(100) primary key ,username varchar2(100), contactnumber varchar2(100), address varchar2(100), pannumber varchar2(100), aadharnumber varchar2(100), accountnumber varchar2(100), creditcardnumber varchar2(100), debitcardnumber varchar2(100), pin varchar2(25));

insert all

into users values(100,'John','9283510287','29,Shyam Apartments, Bommasandra','AQOWD3672P','631273655723','23456789101',null,'7406081790123456','123456')

into users values(101,'Janice','9102836293','A101, Forest Breeze Apartment, Bommanahalli','QPESK5427D',null,'34567890101',null,'7406081790654321','234567')

into users values(102,'Brinda','8102639280','234, Brinda Apartment, Indira Nagar','SQWPF6572E',null,'45678901011',null,'740608179098765','987654')

into users values(103,'Sara','7102963819','B193, Hibiscus Villa, Nagadevanahalli','MDUSG0418R','918278143562',null,null,'9108270662123456','456789')

into users values(104,'Jacob','6301927356','C103, Brigade Villa, Vijaynagar','QPRSG9356U','642018926103',null,null,'9060457279123456','567890')

into users values(105,'Sai','8301927356','S1012, Jublie Hills, Hyderabad','SPRSG9356T','953018926106',null,’45787698768’,'3060457279123489','457856');

select \* from dual;

1. ATM TABLE:

create table atm (atm\_id number primary key, atm\_place varchar2(100), atm\_cash\_limit number);

insert into atm values(1001,'Bommanahalli',1000000);

1. ACCOUNT DETAILS TABLE:

create table account\_details(id number primary key, account\_balance number, ifsc\_code varchar2(100), branch\_name varchar2(100), user\_id varchar2(100) references users(id));

insert all

into account\_details values(1,150000,'XDFC08273','Jaynagar','100')

into account\_details values(2,100000,'XDFC03467','Bommanahalli','101')

into account\_details values(3,15000,'XDFC04826','Bommasandra','102')

into account\_details values(4,175000,'XDFC02739','Yelahanka','103')

into account\_details values(5,160000,'XDFC02893','Whitefield','104')

select \* from dual;

1. TRANSACTION TABLE:

create table transaction ( id number primary key, type varchar2(100), amount number, user\_id varchar2(100) references users(id), date\_of\_transaction timestamp(6));

create sequence id\_gen

start with 200

increment by 1;

1. PL SQL:

PACKAGES AND TRIGGERS:

CREATE OR REPLACE PACKAGE cash\_check   
IS  
PROCEDURE check\_data;  
END;  
/

CREATE OR REPLACE PACKAGE BODY cash\_check  
IS

PROCEDURE check\_data  
IS  
v\_limit number;  
cashException exception;  
BEGIN  
select atm\_cash\_limit into v\_limit from atm;  
if v\_limit<=0  
then  
raise cashException;  
end if;  
EXCEPTION  
when cashException  
then  
dbms\_output.put\_line('ATM Cash Limit exhausted');  
END;

END;  
/

CREATE OR REPLACE TRIGGER trg\_check\_cash\_bs  
AFTER UPDATE ON ATM  
BEGIN  
cash\_check.check\_data;

END;

/

FUNCTION:

CREATE OR REPLACE FUNCTION acc\_details(uid varchar2)

RETURN sys\_refcursor as account sys\_refcursor;

BEGIN

open account for

select a.branch\_name,a.ifsc\_code,u.accountnumber from account\_details a

join users u on a.user\_id=u.id where u.id=uid;

return account;

END;

/

PROCEDURE:

CREATE OR REPLACE PROCEDURE acc\_balance(uid in varchar2, balance out number)  
IS  
BEGIN  
select account\_balance into balance from account\_details where user\_id=uid;  
END;  
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