\*\*Currency

Converter\*\*

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* SCHEMAS

---- CREATE TABLE FOR CURRENCY CONVERTER----

create table Currency\_converter (country\_name varchar(50),

to\_country\_namevarchar(50),

exchange\_rate float);

select \* from Currency\_converter;

--INSERTING VALUES IN CURRENCY CONVERTER---

insert into Currency\_converter values

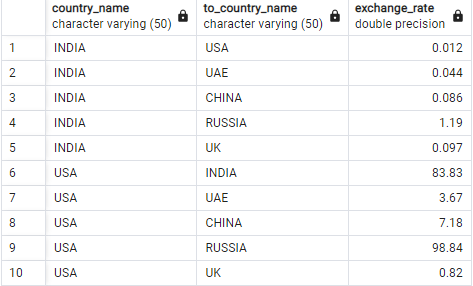
('INDIA','USA',0.012),('INDIA','UAE',0.044), ('INDIA','CHINA',0.086),('INDIA','RUSSIA',1.19),

('INDIA','UK',0.097),('USA','INDIA',83.83),

('USA','UAE',3.67),('USA','CHINA',7.18),

('USA','RUSSIA',98.84), ('USA','UK',0.82);

* OUTPUT:



--- CREATE TABLE FOR USER INFORMATION---

create table user\_information (user\_id int primary key,

country\_name varchar(50),

converted\_country\_namevarchar(50),

country\_currency\_name varchar(50),

converted\_country\_courrency\_name

varchar(50),

Amount float ,

converted\_amount float);

select \* from user\_information;

-- CURRENCY CONVERTER MACHINE --

--- FROM INDIAN RUPEES TO USA DOLLAR , UK POUNDS , RUSSIAN RUBLE ,

CHINESE YUAN ---

\*\*CONVERTING INDIAN RUPEE TO US DOLLARS\*\*

CREATE OR REPLACE PROCEDURE RUPEE\_DOLLAR(amt float) AS $$

DECLARE

user\_id INT :=1;

cName VARCHAR(20) := 'INDIA';

con\_c\_name VARCHAR(20) :='USA';

currency\_value FLOAT;

converted\_amt FLOAT;

BEGIN

IF amt>0 THEN

select exchange\_rate into currency\_value from Currency\_converter where to\_country\_name='USA' AND country\_name='INDIA';

converted\_amt=amt\*currency\_value;

insert into user\_information(user\_id,country\_name , converted\_country\_name ,

country\_currency\_name, converted\_country\_courrency\_name,

Amount ,converted\_amount) values(user\_id,cName,con\_c\_name,'RUPEES',

' US DOLLARS',amt,converted\_amt);

RAISE NOTICE 'Converting amount from INDIAN RUPEE to US DOLLAR amount = % converted to amount = %',amt,converted\_amt ;

ELSE

RAISE NOTICE 'Amount enter can not be negative ';

END IF;

END;

$$

LANGUAGE plpgsql;

-- TO CONVERT INDIAN RUPPES TO US DOLLAR

Call RUPEE\_DOLLAR(7000.00);

* OUTPUT:-

Converting amount from INDIAN RUPEE to US DOLLAR amount = 7000 converted to amount = 84.

------------------------------------------------------------

\*\*CONVERTING INDIAN RUPEE TO UK POUND\*\*

CREATE OR REPLACE PROCEDURE RUPEE\_POUND(amt float) AS $$

DECLARE

user\_id INT :=2;

cName varchar(20) := 'INDIA';

con\_c\_name varchar(20) :='UNITED KINGDOM';

currency\_value FLOAT;

converted\_amt FLOAT;

BEGIN

IF amt>0 THEN

select exchange\_rate into currency\_value from Currency\_converter where to\_country\_name='UK' AND country\_name='INDIA';

converted\_amt=amt\*currency\_value;

insert into user\_information(user\_id,country\_name , converted\_country\_name,

country\_currency\_name,converted\_country\_courrency\_name,

Amount ,converted\_amount)

values(user\_id,cName,con\_c\_name,

'RUPEES','POUNDS',amt,converted\_amt);

RAISE NOTICE 'Converting amount from INDIAN RUPEE to UK POUND amount = % converted to amount = %',amt,converted\_amt ;

ELSE

RAISE NOTICE 'Amount enter can not be negative ';

END IF;

END;

-- TO CONVERT INDIAN RUPEE TO POUND

Call RUPEE\_POUND(1000);

* OUTPUT:

Converting amount from INDIAN RUPEE to UK POUND amount = 1000 converted to amount = 97.

-------------------------------------------------------------

\*\*CONVERTING UAE DHIRAMS TO INDIAN RUPEES\*\*

CREATE OR REPLACE PROCEDURE AED\_RUPEE(AMT FLOAT) AS $$

DECLARE

user\_id INT :=3;

CONVERTED\_AMT FLOAT ;

EX\_RATE FLOAT;

COUNTRY\_NAME VARCHAR(20):='UAE';

TOO\_COUNTRY\_NAME VARCHAR(20):='INDIA';

BEGIN

if AMT>0.0 then

select exchange\_rate into EX\_RATE from Currency\_converter where to\_country\_name='UAE'AND country\_name='INDIA';

CONVERTED\_AMT= AMT/EX\_RATE ;

insert into user\_information(user\_id,country\_name , converted\_country\_name,

country\_currency\_name, converted\_country\_courrency\_name,

Amount ,converted\_amount) values(user\_id,COUNTRY\_NAME,TOO\_COUNTRY\_NAME,'AED’, 'RUPEES',AMT,CONVERTED\_AMT);

RAISE NOTICE 'Converting amount from UAE AED (DHIRAMS) to INDIAN RUPEES amount = % converted to amount = %',AMT,CONVERTED\_AMT ;

ELSE

RAISE NOTICE 'Amount enter can not be negative ';

END IF;

END;

$$

LANGUAGE plpgsql;

-- TO CONVERT AED TO RUPEES

CALL AED\_RUPEE(100.0);

* OUTPUT:

Converting amount from UAE AED (DHIRAMS) to INDIAN RUPEES amount = 100 converted to amount = 2272.72.

--------------------------------------------------------

\*\*CONVERTING INDIAN RUPEE TO CHINES YUAN\*\*

CREATE OR REPLACE PROCEDURE RUPEE\_YUAN(amt float) AS $$

DECLARE

user\_id INT :=4;

cName VARCHAR(20) := 'INDIA';

con\_c\_name VARCHAR(20) :='CHINA';

currency\_value FLOAT;

converted\_amt FLOAT;

BEGIN

IF amt>0 THEN

select exchange\_rate into currency\_value from Currency\_converter where to\_country\_name='CHINA' AND country\_name='INDIA';

converted\_amt=amt\*currency\_value;

insert into user\_information(user\_id,country\_name , converted\_country\_name ,

country\_currency\_name, converted\_country\_courrency\_name,

Amount ,converted\_amount)

values(user\_id,cName,con\_c\_name,'RUPEES','YUAN',

amt,converted\_amt);

RAISE NOTICE 'Converting amount from INDIAN RUPEE to CHINESE YUAN amount = % converted to amount = %',amt,converted\_amt ;

ELSE

RAISE NOTICE 'Amount enter can not be negative ';

END IF;

END;

$$

LANGUAGE plpgsql;

-- TO CONVERT INDIAN RUPPES TO CHINESE YUAN --

Call RUPEE\_YUAN(7000.00);

* OUTPUT:-

Converting amount from INDIAN RUPEE to

CHINESE YUAN amount = 7000 converted to

amount = 602.

-------------------------------------------------------------

\*\*CONVERTING INDIAN RUPEE TO RUSSIAN

RUBLE\*\*

CREATE OR REPLACE PROCEDURE RUPEE\_RUBLE(amt float) AS $$

DECLARE

user\_id INT :=5;

cName VARCHAR(20) := 'INDIA';

con\_c\_name VARCHAR(20) :='RUSSIA';

currency\_value FLOAT;

converted\_amt FLOAT;

BEGIN

IF amt>0 THEN

select exchange\_rate into currency\_value from Currency\_converter where to\_country\_name='RUSSIA' AND country\_name='INDIA';

converted\_amt=amt\*currency\_value;

insert into user\_information(user\_id,country\_name , converted\_country\_name ,country\_currency\_name,

converted\_country\_courrency\_name, Amount ,converted\_amount)

values(user\_id,cName,con\_c\_name,'RUPEES','RUBLE ',amt,converted\_amt);

RAISE NOTICE 'Converting amount from INDIAN RUPEE to RUSSIAN RUBLE amount = % converted to amount = %',amt,converted\_amt ;

ELSE

RAISE NOTICE 'Amount enter can not be negative ';

END IF;

END;

$$

LANGUAGE plpgsql;

-- TO CONVERT INDIAN RUPPES TO RUSSIAN RUBLE

Call RUPEE\_RUBLE(7000.00);

* OUTPUT:-

Converting amount from INDIAN RUPEE to RUSSIAN RUBLE amount = 7000 converted to

amount = 8330.

----------------------------------------------------

--- TO CONVERT USA DOLLAR TO INDIAN

RUPEES, UK POUNDS, CHINESE YUAN,

UAE DHIRAMS , RUSSIAN RUBLE ---

**\*\*TO CONVERT DOLLARS TO RUPEES\*\***

DO $$

DECLARE

amt float :=500;

user\_id INT :=6;

cName VARCHAR(20) := 'USA';

con\_c\_name VARCHAR(20) :='INDIA';

currency\_value FLOAT;

converted\_amt FLOAT;

BEGIN

IF amt>0 THEN

select exchange\_rate into currency\_value from Currency\_converter where to\_country\_name='INDIA' AND country\_name='USA';

converted\_amt=amt\*currency\_value;

insert into user\_information(user\_id,country\_name , converted\_country\_name,

country\_currency\_name,converted\_country\_courrency\_name,

Amount ,converted\_amount)

values(user\_id,cName,con\_c\_name,'DOLLARS','RUPEES.’,

amt,converted\_amt);

RAISE NOTICE 'Converting amount from USA DOLLARS to INDIAN RUPEES amount = % converted to amount = %',amt,converted\_amt ;

ELSE

RAISE NOTICE 'Amount enter can not be negative ';

END IF;

END;

$$

* **OUTPUT:-**

Converting amount from USA DOLLARS to INDIAN RUPEES amount = 500 converted to

amount = 41915.

--------------------------------------------------------

\*\*TO CONVERT DOLLARS TO DHIRAMS \*\*

DO $$

DECLARE

amt float :=600;

user\_id INT :=7;

cName VARCHAR(20) := 'USA';

con\_c\_name VARCHAR(20) :='UAE';

currency\_value FLOAT;

converted\_amt FLOAT;

BEGIN

IF amt>0 THEN

select exchange\_rate into currency\_value from Currency\_converter where to\_country\_name='UAE' AND country\_name='USA';

converted\_amt=amt\*currency\_value;

insert into user\_information(user\_id,country\_name , converted\_country\_name ,country\_currency\_name,

converted\_country\_courrency\_name, Amount ,converted\_amount)

values(user\_id,cName,con\_c\_name,'DOLLARS','DHIRAMS ',amt,converted\_amt);

RAISE NOTICE 'Converting amount from USA DOLLARS to UAE AED (DHIRAMS) amount = % converted to amount = %',amt,converted\_amt ;

ELSE

RAISE NOTICE 'Amount enter can not be negative ';

END IF;

END;

$$

* OUTPUT:-

Converting amount from USA DOLLARS to

UAE DHIRAMS amount = 600 converted to

amount = 2202.

--------------------------------------------------------

\*\*TO CONVERT DOLLARS TO YUAN\*\*

DO $$

DECLARE

amt float :=800;

user\_id INT :=7;

cName VARCHAR(20) := 'USA';

con\_c\_name VARCHAR(20) :='CHINA';

currency\_value FLOAT;

converted\_amt FLOAT;

BEGIN

IF amt>0 THEN

select exchange\_rate into currency\_value from Currency\_converter where to\_country\_name='CHINA' AND country\_name='USA';

converted\_amt=amt\*currency\_value;

insert into user\_information(user\_id,country\_name , converted\_country\_name ,country\_currency\_name,

converted\_country\_courrency\_name, Amount ,converted\_amount)

values(user\_id,cName,con\_c\_name,'DOLLARS','YUAN ',amt,converted\_amt);

RAISE NOTICE 'Converting amount from USA DOLLARS to CHINESE YUAN amount = % converted to amount = %',amt,converted\_amt ;

ELSE

RAISE NOTICE 'Amount enter can not be negative ';

END IF;

END;

$$

* OUTPUT:-

Converting amount from USA DOLLARS to CHINESE YUAN amount = 800 converted to amount = 5744.

--------------------------------------------------------

\*\*TO CONVERT DOLLARS TO RUBLE\*\*

DO $$

DECLARE

amt float :=400;

user\_id INT :=7;

cName VARCHAR(20) := 'USA';

con\_c\_name VARCHAR(20) :='RUSSIA';

currency\_value FLOAT;

converted\_amt FLOAT;

BEGIN

IF amt>0 THEN

select exchange\_rate into currency\_value from Currency\_converter where to\_country\_name='RUSSIA' AND country\_name='USA';

converted\_amt=amt\*currency\_value;

insert into user\_information(user\_id,country\_name , converted\_country\_name ,country\_currency\_name,

converted\_country\_courrency\_name, Amount ,converted\_amount)

values(user\_id,cName,con\_c\_name,'DOLLARS','RUBLE',amt,converted\_amt);

RAISE NOTICE 'Converting amount from USA DOLLARS to RUSSIAN RUBLE amount = % converted to amount = %',amt,converted\_amt ;

ELSE

RAISE NOTICE 'Amount enter can not be negative ';

END IF;

END;

$$

* OUTPUT:-

Converting amount from USA DOLLARS to

RUSSIAN RUBLE amount = 400 converted to

amount = 39536.

--------------------------------------------------------

\*\*TO CONVERT DOLLARS TO POUND\*\*

DO $$

DECLARE

amt float :=900;

user\_id INT :=7;

cName VARCHAR(20) := 'USA';

con\_c\_name VARCHAR(20) :='UK';

currency\_value FLOAT;

converted\_amt FLOAT;

BEGIN

IF amt>0 THEN

select exchange\_rate into currency\_value from Currency\_converter where to\_country\_name='UK' AND country\_name='USA';

converted\_amt=amt\*currency\_value;

insert into user\_information(user\_id,country\_name , converted\_country\_name ,country\_currency\_name,

converted\_country\_courrency\_name, Amount ,converted\_amount)

values(user\_id,cName,con\_c\_name,'DOLLARS','POUND',amt,converted\_amt);

RAISE NOTICE 'Converting amount from USA DOLLARS to UK POUND amount = % converted to amount = %',amt,converted\_amt ;

ELSE

RAISE NOTICE 'Amount enter can not be negative ';

END IF;

END;

$$

* OUTPUT:-

Converting amount from USA DOLLARS to

UK POUND amount = 900 converted to

amount = 738.

--------------------------------------------------------

MAIN OUTPUT OF USER DETAILS TABLE:-

