REVOKE APPLYBUDGET ON DATABASE PC\_DBT\_DB FROM ROLE PC\_DBT\_ROLE;

grant all privileges on DATABASE PC\_DBT\_DB to role PC\_DBT\_ROLE;

grant all privileges on schema public to role PC\_DBT\_ROLE;

grant select on all tables in schema public to role PC\_DBT\_ROLE;

GRANT SELECT ON FUTURE TABLES IN DATABASE PC\_DBT\_DB TO ROLE PC\_DBT\_ROLE;

create or replace function trans\_func(amount number)

returns string

language sql

as

$$

select case when amount > 500 then 'High'

when amount between 100 and 200 then 'Medium'

else 'Low' end

$$

;

grant USAGE on FUNCTION trans\_func(NUMBER) to role PC\_DBT\_ROLE;

select \* from transaction ;

select \*, trans\_func(amount) as risk\_level from transaction;

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create or replace function age\_func(age number)

returns string

language sql

as

$$

select case when age > 100 then 'invalid'

when age < 0 then 'invalid'

else 'valid' end

$$

;

--age = today.year - dob.year - ((today.month, today.day) < (dob.month, dob.day))

--return age

-------------------------------------------------------o

CREATE OR REPLACE FUNCTION calculate\_age(dob DATE)

RETURNS INT

LANGUAGE SQL

AS

$$

-- Calculate the age

SELECT DATEDIFF(

YEAR,

dob,

CURRENT\_DATE

) - CASE

WHEN MONTH(CURRENT\_DATE) < MONTH(dob) OR (MONTH(CURRENT\_DATE) = MONTH(dob) AND DAY(CURRENT\_DATE) < DAY(dob))

THEN 'invalid'

ELSE 'valid'

END

$$;

SELECT \*,calculate\_age(date\_of\_birth) AS age from customer;

grant USAGE on FUNCTION age\_func(NUMBER) to role PC\_DBT\_ROLE;

select \* from customer limit 10 ;

select \*, age\_func(date\_of\_birth) as age\_status from customer;

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CREATE OR REPLACE FUNCTION calculate\_age\_status(dob DATE)

RETURNS STRING

LANGUAGE SQL

AS

$$

DECLARE

age INT;

today DATE;

BEGIN

today := CURRENT\_DATE;

age := DATE\_PART('YEAR', today) - DATE\_PART('YEAR', dob);

-- Adjust age if the birthday hasn't occurred yet this year

IF (DATE\_PART('DOY', today) < DATE\_PART('DOY', dob)) THEN

age := age - 1;

END IF;

-- Return validity status based on age

IF age > 100 THEN

RETURN 'Invalid';

ELSIF age < 0 THEN

RETURN 'Invalid';

ELSE

RETURN 'Valid';

END IF;

END;

$$;