- 4 Inbult functions:
  - & Numbers
  - 9 Strings
    - 4 Date
- Conditional keywoods:

  - 4 of non
    - 4 CASE
    - \* WALESCE
- D NUMBERS
- 1) ROUND => round (number, no of digits after desiral)
  - ex 5) yound (2.31789, 2) 3 2.32 00.1 (= (6, PPP 400.1) bower
- 2) TRUNCATE => truncate (number, no. of digits after desiral)
  - er 9 fruncate ( d. 31789, 2) 0 d.31 trucate (1.004999,3) = 1.004
  - => next Integer > number CIEWA

- ex => Cieling(3) => 3 Cieling(2.31) => 3 Cieling(1.09) => 2
- 4) floor => next Integer < number
  - fron (9.31) 2) 7 fron (9.31) 2) g
- 5> ABS => alphante volue of a no. (eve)

  ABS(-2,94) => 2.94

  ABS(-2) => 2

  ABS(1.34) => 1.34
- 6) RAND 3 returns a random no. 6/w 0 to 1. [0-1]

  Q Build a fer that generates an almost random no. 6/w [0-10]

  (Integers

  7) rand () & 10
  - 5 0.00999 K10 \$ 0.09 0.142 X10 \$ 1.42

Frontin 210.

0,9999 ×10 => 9,999 => viel (9,999) => 10

## round ( revel (1, 1) × 10

ex = 0.001 => 0.0 × 10 = 0

0,049999 9 0

,

Koor

iel 8

boased

Ciel

floor

Rs braked

3) we cant use either

round

ex = (0.00049999) x10 => 0

0.082 3

0.0062

0.000

0.

### =) STRINGS +

- 1) LENGTH => longth ("abcd") => 4
  - a) upper ("aBcD") => ABCO
  - 3) LOWER => (ower("aBcD") => abcd
- 4) LTRIM => trim all 'Spaces from left side

  Ltrim (" -- Anjana -- ") => Anjana --
- S) RTRIM => trim all 'spaces from right stole

  Thrim (" -- Anjana -- ") => -- Anjana
  - 6) TRIM 3 frim all spaces on both sides
    frim ("\_- Anyana -- ") => Myana

# 7) LOCATE => locate (topind, fromstring)

locate ("ex", "delh"") => 2

50 if doent wist

Puder from where the

12345 searen 8 thing starts

8) Extract a clumb of a string

SUBSTRING => Kuleshing ( Shr. Stant, length)

Starting how
position we want
to express

en = & blocking ("ABCDEF", 2, 4)

en " left ( &m, length)

Left ("ABCDE", 2) => AB.

#### # DATE !

- 1) Now 3 now() 3 gives current date
- 2) WRDATE 3) WIRDATE 3) grus current date
- 5) CORFINE => Curtime() => grus current time
- 4) Extractions in date:

YEAR (DATE) => YEAR ("2023-03-4") => 2023

MONTH (DATE) => MONTH ("2023-03-21")

=> March

DAYNAME (DATE) => Dayrane ("2023-03-21")

of if we want to add | substract protomals into dates;

1) date-add (date, interval)

n ming

prime the date, offer the internal has parsed from the given date.

11) date-bub (date, internal)

n ming n days

prime the date, before the internal has parted from the given date.

(11) datediff => difference bofor de dates

+ univircands

+ unimités

+ days

of we use do demo on all m-butt functions.

#### => Transactions:

- Duto
- ACID
- Islation levels
  - Demo.

3) what are transactions?

Aus or A set of logically related operations

of In reality, to perform a task, a single query might not be enough

example : Down

Send Amount ( framfacour, to Account, amount) {

1) t = get the current balance for "fromtcom"

a) t = t - amount

3) store t back to DB

of we some the above problem using transaction of Isolation.

## # ACIO propursies;

A -> Atomicity

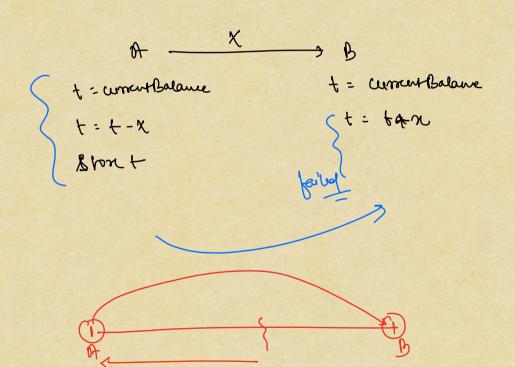
C -> Convision

I -> Devaloility

& Atomicity:

a knowlest possible unit of task a the entire unit use either complete, or nothing use trappen

en or transfer movey or single unit of task to outside



eg in bank & wirndrawing money from AM

100k — T = cumbalance

100k — T = r-a

1 2 tox T [failed]

90k

of System should several courtstent before I after the transaction of the transaction of the promoter of the promoter of the state.

4 Destation: There can be multiple transactions going.
In the DB but any transaction should
not impact the Other transactions

of Every transaction should be independent; and produce derived souls.

"Transaction Destation buck"

& Dunaloility: Data before or after a transaction should person.