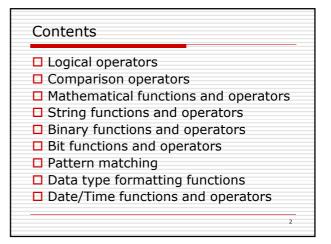
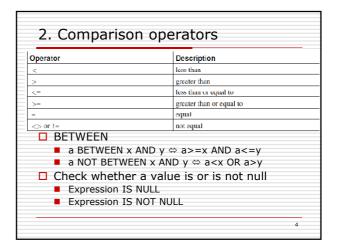
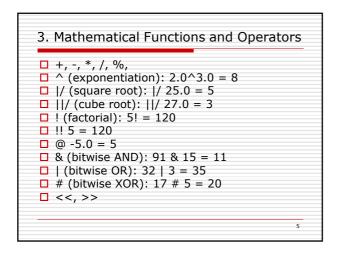
Functions and Operators NGUYEN Hong Phuong phuongnh@soict.hut.edu.vn

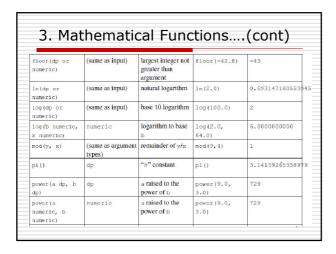


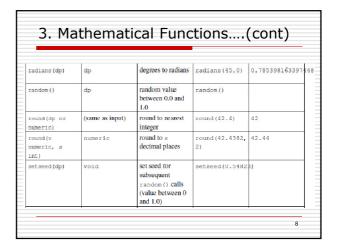
1. Lc	gical oper	ators					
☐ The usual logical operators are available: AND, OR, NOT							
a	ь	a AND b	a OR b				
TRUE	TRUE	TRUE	TRUE				
TRUE	FALSE	FALSE	TRUE				
TRUE	NULL	NULL	TRUE				
FALSE	FALSE	FALSE	FALSE				
FALSE	NULL	FALSE	NULL				
NULL	NULL	NULL	NULL				
a		NOT a					
TRUE		FALSE	FALSE				
FALSE		TRUE					
NULL		NULL					

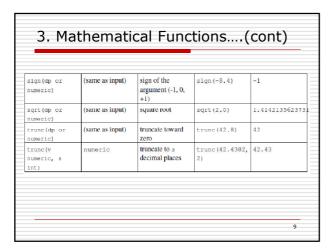


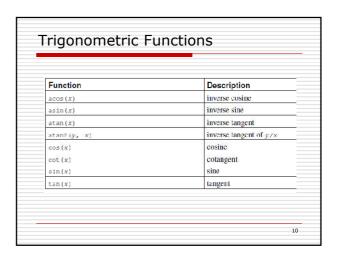


☐ Mathematical Functions							
Function	Return Type	Description	Example	Result			
abs(x)	(same as x)	absolute value	abs (-17.4)	17.4			
cbrt (dp)	dp	cube root	cbrt (27.0)	3			
ceil(dp or numeric)	(same as input)	smallest integer not less than argument	ceil(-42.8)	-42			
ceiling(dp or numeric)	(same as input)	smallest integer not less than argument (alias for ceil)	ceiling(-95.3)	-95			
degrees (dp)	dp	radians to degrees	degrees (0.5)	28.647889756541			
exp(dp or numeric)	(same as input)	exponential	exp(1.0)	2.7182818284590			









4. String Functions and Operators ☐ Types: character, character varying, text Function Return Type Description Example Result string || Strine 'Post' || PostgreSQL concatenation greSQL' string String non-string O concatenation non-string [] with one string non-string input Number of bits in bit_length('jos@2) bit length(string)nt 11

char_length(string) Or character_length(st		Number of characters in string	char_length('jo	ośe')
lower(string) te	ext	Convert string to lower case	lower('TOM')	tom
octet_length(strim	gi)	Number of bytes in string	octet_length('	j é se')
overlay(string te placing string from int [for int])	ext	Replace substring	overlay('Txxxxx placing 'hom' from 2 for 4)	aghomas

