

# Database Systems

## Labsheet-11

(Prof R Gururaj)

### Some important SQL built-in functions:

- Q1) Use the following functions →
1. chr (n): Ex. → Select chr(97) from dual; *prints 'a'*
2. concat(char1, char2): Ex. → Select concat('H', 'i') from dual;
3. instr(string, char): Ex. → Select instr('Hello', 'e') from dual  
*1 2 3 4 5* *return - 2*
4. length(n): Ex. → Select length(12) from dual; *return - 2*
5. lpad(char1, n [, char2]): Ex. → lpad('S', 4, 'd') → *ddds* *total 4*
6. ltrim(string [, char(s)]): Select ltrim('...Hello') → 'Hello'
7. rpad(char1, n [, char2]): Ex. → ('S', 3, 'd') *ltrim('kkhello', 'k')* → 'Hello'
8. rtrim(string [, char(s)]): Ex. → 'S d d d' → 'Hello'
9. replace(*String* char, search\_string, replacement\_string): ✓
10. substr(string, position, substring length): substr('Hello', 2, 3)
11. initcap(char): *initcap('hello')* → Hello *1 2 3 4 5* *ell'*
12. lower(string): *HELLO* → hello
13. upper(string): ✓

14. `translate(char, from string, to string):` ✓

15. `abs(n):` ✓  $\text{abs}(-13.46) = 13.46$

16. `ceil(n):`  $\text{ceil}(-13.46) = 13$   $\text{ceil}(13.46) = 14$

17. `cos(n):`

18. `exp(n):`

19. `floor(n):`

20. `mod(m, n):` —  $22/12 = 10$

21. `power(x, y):`  $\text{power}(2, 5) = 32$

22. `round(x [, y]):`  $\text{round}(2.7686766, 1) = 2.76868$

23. `sign(n):` —  $\text{sig}\left(\frac{122}{8}\right) = 1$

$\text{sign}(-122) = -1$

select trunc(124.378) for deal;  
will give 124

$n < 0 \quad -1$   
 $n = 0 \quad 0$

24. `sqrt(n)`; ✓
25. `trunc(x, n)`: *Select trunc (123.4321, 2) from dual;* *gives 123.43*
26. `sysdate`:
27. `add_months(d, n)`: *add\_months('08-APR-2019', 4) finds*  
*→ 08-AUG-2019*
28. `last_day()`: *'02-FEB-2019' gives 28-FEB-2019*
29. `months_between(date1, date2)`:
30. `next_day(date, char)`: *next\_day('08-APR-2019', 'Sun')*  
*Result 14-APR-2019.*
31. `greatest(expr)`: *greatest(7, 8, 9)*
32. `least(expr)`:

*Select to\_date(sysdate)*  
*↓*  
*08-APR-2019*