

# C.U.SHAH UNIVERSITY

## Summer Examination 2019

Subject Name : Database Systems with ORACLE

Subject Code : 4CS03IDS1

Branch: B.Sc.IT

Semester : 3

Date :15/03/2019

Time : 02:30 To 05:30

Marks : 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
  - (2) Instructions written on main answer book are strictly to be obeyed.
  - (3) Draw neat diagrams and figures (if necessary) at right places.
  - (4) Assume suitable data if needed.
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### Q.-1 Attempt following MCQs.

14

- 1) Full form of SQL is \_\_\_\_\_
  - a) Simple Query Language
  - b) Structured Query Language
  - c) Simple Question Language
  - d) Super Query Language
- 2) Which is DML Command?
  - a) insert
  - b) delete
  - c) update
  - d) All of the above
- 3) How many rules provided by Dr. E. F. Codd?
  - a) 10
  - b) 11
  - c) 12
  - d) 14
- 4) Alter command is used to \_\_\_\_
  - a) change table column width
  - b) change table column type
  - c) Both A and B
  - d) None of the above.
- 5) Like operator uses \_\_\_\_\_ character for wildcards.
  - a) %
  - b) \_ (Underscore)
  - c) Both A and B
  - d) None of the above.
- 6) Primary key are \_\_\_\_\_
  - a) Unique
  - b) Not null
  - c) Both A and B
  - d) None of the above
- 7) Which is not a set operator in SQL?
  - a) Union
  - b) minus
  - c) Subtract
  - d) intersect
- 8) Which of the following is aggregate function?
  - a) sum()
  - b) Max()
  - c) Avg()
  - d) All of the above



- 9) Table join with itself is called \_\_\_\_\_ join.
  - a) cross
  - b) outer
  - c) self
  - d) None of the above
  
- 10) Having clause is used with \_\_\_\_\_.
  - a) group by
  - b) order by
  - c) Both A and B
  - d) None of above
  
- 11) Which of this constraint is valid and used in SQL?
  - a) primary key
  - b) foreign key
  - c) check
  - d) All of above
  
- 12) Sub query uses \_\_\_\_\_ operators.
  - a) in
  - b) not in
  - c) any
  - d) All of above
  
- 13) To sort table data of a column\_\_\_\_\_ is used in SQL.
  - a) Order by
  - b) Group by
  - c) Having
  - d) None of above
  
- 14) Natural join is also known as \_\_\_\_\_.
  - a) Outer join
  - b) Equi join
  - c) cross join
  - d) None of the above

**Attempt any FOUR.**

**Q.-2 Attempt following. 14**

- a) Write a note on Normalization. 7
- b) Explain Dr. E. F. Codd's Rule. 7

**Q.-3 Attempt following. 14**

- a) Define SQL. Explain DML Commands with suitable example. 7
- b) What is SELECT? Explain SELECT with WHERE and GROUP By Clause. 7

**Q.-4 Attempt following. 14**

- a) Why we use SET Operator? Explain all types set operator with example. 7
- b) Define Constraint? Explain Primary key and foreign key constraint. 7

**Q.-5 Attempt following. 14**

- a) Define Join. Explain Equi join and Non-Equi join with examples. 7
- b) What is Sub Query? Explain IN, NOT IN and ANY operators in sub query. 7



<b>Q.-6 Attempt following.</b>	<b>14</b>
a) Describe various components of DDBMS.	7
b) What is Data Warehouse? Explain its characteristics.	7
<b>Q.-7 Attempt following.</b>	<b>14</b>
a) Explain difference between CHAR and VARCHAR2	5
b) Differentiate DBMS Vs. RDBMS	5
c) Explain BETWEEN operators with suitable example.	4
<b>Q.-8 Attempt following.</b>	<b>14</b>
a) <b>Following table is created.</b>	<b>7</b>
EMP(Empno, Ename, Dept, Salary, City)	
Write query using above table.	
1) Display employees serving in computer department.	2
2) Display employees serving in account dept with salary between 5000 to 10000	2
3) Display employees living in baroda serving in electrical department.	2
4) Find total of salary.	1
b) What is business intelligence? Describe BI Framework.	7

