

**COMPUTER SCIENCE DEPARTMENT
MILITARY COLLEGE OF SIGNALS, NUST
DATABASE SYSTEMS
BESE 15 B**

Exam: Midterm
Type of Paper: Regular
Semester: Fall 2010

Instructor: Shahela Saif
Total Marks: 20
Time Allowed: 120 min

Note:

1. Use of course work slides or other helping material is not allowed.
 2. Submit your work in the assignments folder as other regular assignments.
 3. Copied submissions will be cancelled altogether.
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Question .No.1

(0.5 x 10)

Write the function / clause used to perform the following tasks in SQL. Write the function format where applicable.

- a. To arrange records based on value of a particular field.
- b. To cluster records based on value of a particular field.
- c. To find a character within a string.
- d. To implement conditional logic.
- e. To specify century other than the current one.
- f. To display structure of table.
- g. To replace NULL values.
- h. For adding literal strings in displayed columns.
- i. For matching given/current value to every value returned by subquery.
- j. To match a character pattern.

Question .No.2**(1.25 x 12)**

Write the queries to:

- a. Display all the data from the customers table. Separate each column by a comma. Name the output column THE_OUTPUT.
- b. Select all records from customers table that have last names after Chris and before Sandler including Chris and Sandler.
- c. Select records of all customers who placed their order on 12th July, 05.
- d. Display records of all customers and the products they have purchased.
- e. Display records of all customers where products purchased value more than 20,000. First and last names joined together and displayed in capitals, product names in initial capitals.
- f. Create list of all transactions that occurred after 1998.
- g. Assign priorities to customers. If they have done transaction of more than 40,000, assign priority High. If more than 25,000, assign priority Medium. For the others assign priority Low.
- h. Calculate the total amount of money spent by each customer.
- i. Display all customers and their respective orders. Also display customers that haven't placed any order yet.
- j. Display record of person who did the first transaction using subquery.
- k. Display records of all customers who have bought products from supplier with id 9 using subquery.
- l. Use subquery to display records of all customers that have ordered Wall Unit.