CODING

Professional Course Examination (Odd), 2023

Semester **: 3**

Subject Code **: BCA/3/CC/17**

Subject **: Bachelor of Computer Applications**

Name of the Paper **: Oracle Lab (Practical)**

Date of Examination **: 17-11-2023**

No. of Answer Sheet(s) Used : _____

Full Marks : 75 **Time : 3 Hours**

INSTRUCTIONS TO CANDIDATES

Please read the instructions carefully before you start writing your answers.

1. Questions should be attempted as per instructions.
2. Candidate should clearly indicate the Question Nos. and the Page No. for each sheet.
3. Please write your Roll No. and Registration No. clearly and correctly in the space provided.
4. Do not write your name or the name of your college/institution anywhere or anything else, which is not part of your answer.
5. Candidate should make sure that the answer sheets scanned should be legible.
6. The Invigilator on duty should confirm that the correct script is received, compiled and attached to the correct Cover Page.
7. Multiple Choice Answer should indicate the Question No., Sub. No., (if any) and the correct answer. For example—

   1. *Name the state capital of Mizoram.*
   (a) Lunglei
   (b) Champhai
   (c) Aizawl
   (d) Mamit

   Candidate should provide answer as **1 (c) Aizawl**

   [Candidate should avoid writing only (c)]

Question Nos.	Marks
Total	

CODING

To be filled in by the Candidate

Date of Examination
17-11-2023

Semester **: 3**

Subject Code
BCA/3/CC/17

Subject
Bachelor of Computer Applications
(Practical)

Roll No. _____

Regn. No. _____

No. of Additional Sheet(s) :

_____

Scrutinizer's Signature *Examiner's Signature* *Invigilator's Signature*

DO NOT WRITE HERE

Professional Course Examination (Odd), 2023

(3rd Semester)

BACHELOR OF COMPUTER APPLICATIONS

Course No. : BCA/3/CC/17

(Oracle Lab)

(Practical)

Full Marks : 75

Time : 3 hours

The figures in the margin indicate full marks for the questions

Answer any *one* set (SET-A *or* SET-B) : 50

SET—A

1. Create the following three tables, and give references wherever it is required :

   (i) Salesman

SNUM	SNAME	CITY	COMMISSION

   SNUM : A unique number assign to each salesman.

   SNAME : The name of salesman.

   CITY : The location of salesman.

   COMMISSION : The salesman commission on order.

(ii) Customer

CNUM	CNAME	CITY	RATING	SNUM

CNUM : A unique number assign to each customer.

CNAME : The name of customer.

CITY : The location of customer.

RATING : A level of preference indicator given to this customer.

SNUM : A salesman number assign to this customer.

(iii) Orders

ONUM	AMOUNT	ODATE	CNUM	SNUM

Write SQL command for the following :

(a) List of all orders from more than Rs. 1,000. 2

(b) List all customers whose name begins with a letter 'C' and 'F'. 3

(c) List all customers serviced by salesman with commission above 15%. 5

(d) Double the commission of all salesmen of Delhi by 15%. 5

(e) Calculate the total of orders for each day. 5

(f) Create a view called Big orders which stores all orders larger than Rs. 4,000. 5

2. Consider the following relations for an order processing database applications in a company :

CUSTOMER (cust:int,cname:string,city:string)
ORDER (order:int,odate:date,cust:int,ord-amt:int)
ORDER_ITEM (order:int,item:int,qty:int)
ITEM (item:int,unitprice:int)
SHIPMENT (order:int,warehouse:int,ship-date:date)
WAREHOUSE (warehouse:int,city:string)

Write SQL command for the following :

(a) Create the above tables by properly specifying the primary keys and the foreign keys. 5

(b) Enter at least five tuples for each relation. 5

(c) List the orders date, items and unit price. 5

(d) Calculate the total of orders for each day. 5

(e) Find out which unit price is lowest 5

Practical record book. 10

Viva voce. 15

SET—B

1. Consider the following database of student enrollment in courses and books adopted for each course :

   STUDENT (regno:string,name:string,major:string,bdate:date)
   COURSE (course:int,cname:string,dept:string)
   ENROLL (regno:string,course:int,marks:int)
   BOOK_ADOPTION (course:int,sem:int,book-ISBN:int)
   TEXT (book-ISBN:int,book-title:string,publisher:string,author:string)

   Write SQL command for the following :

   (a) Create the above tables by properly specifying the primary keys and foreign keys. 5

   (b) Enter five tuples for each relation. 5

   (c) List any department that has all its adopted books published by a specific publisher. 5

   (d) List out student marks in ascending order. 5

   (e) Create a view Black Market that gives the count of no. of publisher. 5

2. Consider the following database for a banking enterprise :

BRANCH (branch-name:string;branch-city:string,assets:real)
ACCOUNT (accno:int,branch-name:string,balance:real)
DEPOSITOR (customer-name:string,accno:int)
CUSTOMER (customer-name:string,customer-street:string,city:string)
LOAN (loan-number:int,branch-name:stringloan-number:int)
BORROWER (customer-name:string,customer-street:string,
city:string)

Write SQL command for the following :

(a) Find all the customers who have at least two accounts at the main branch. 5

(b) Find all the customers who have an account at all the branches located in a specified city. 5

(c) Select the borrower name and balance using sub query. 5

(d) Find the lowest and highest balance in account table. 5

(e) Create a view called Personal loan that shows customer name, account no. and loan. 5

Practical record book. 10

Viva voce. 15

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