

**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
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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
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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
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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:string,loan-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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