

Professional Course Examination, January 2021

(3<sup>rd</sup> Semester)

BACHELOR OF COMPUTER APPLICATIONS

(Oracle Lab) (Revised)

(Practical)

Full Marks : 75

Time : 3 hours

*The figures in the margin indicate full marks for the questions*

I. Answer any one set (SET—A or SET—B) :

SET - A

1. Create following Three Tables:

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. Retrieve all orders whose amount is more than Rs. 1000 (2)
- b. List all customers whose name begins either with a letter 'D' or 'F' (3)
- c. List all customer's name and city serviced by salesman with commission above 20%. (5)
- d. Replace the commission of all salesmen of Delhi by 10% (5)
- e. Calculate the total of orders for each day. (5)
- f. Create a view called Orders which stores all orders of more than Rs. 4000. (5)

2. Create the following relations:

EMP(empno, ename, desig, managerno, hiredate, sal, address, dob, deptno)  
DEPT(deptno, dname, dept\_ address)

**Write SQL command for the following:**

- a. Retrieve all the name of employees working in the department TCS and WIPRO only. (3)
- b. List the name of employees whose names start with letter J or letter j and whose salary is more than Rs. 70000 (5)
- c. List the name of employees along with their department name. (5)
- d. Find all the employees whose age is more than 40 along with their department name. (5)
- e. Add another new column in EMP by name gender. (5)
- f. Delete employee whose address is "Kolkata". (2)

#### SET – B

3. 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. Retrieve all the orders placed by a particular customer. (5)
  - b. Retrieve all the orders that were shipped for a specific date (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)
4. The following tables are maintained by a book dealer
- AUTHOR (author-id:int, name:string, city:string, country:string)

PUBLISHER (publisher-id:int,name:string,city:string,country:string)  
CATALOG (book-id:int,title:string,author-id:int,publisher-id:int,category-id:int,year:int,price:int)  
CATEGORY (category-id:int,description:script)  
ORDER-DETAILS (order-no:int,book-id:int,quantity:int)

**Write SQL command for the following:**

- a. Find the author of the book which has maximum sales (5)
- b. List all authors whose name begins with a letter 'R'. (2)
- c. Select the order detail ordered by quantity. (3)
- d. Shows the total and average quantity of book order (5)
- e. Create a view called Booking which shows author name, book id, price, and year (5)
- f. Delete the quantity of book orders. (5)

II. Viva Voce (15)

III. Record Book (10)

\*\*\* BCA/3/CC/17\*\*\*