

Professional Course (Odd) Examination, 2024

(CBCS)

(3rd Semester)

BACHELOR OF COMPUTER APPLICATIONS

(Oracle Lab)

Full Marks : 75

Time : 3 hours

The figures in the margin indicate full marks for the questions

Answer any *one* from Section—A or Section—B

SECTION—A

Consider the following relations for an order processing database application 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)

1. Create the above tables by properly specifying the primary keys and the foreign keys.
2. Enter at least five tuples for each relation.

3. Produce a listing : CUSTNAME of orders, AVG_ORDER_AMT, where the middle column is the total no. of orders by the customer and the last column is the average order amount for that customer.
4. List the order for orders that were shipped from all warehouses that the company has in a specified city.
5. Demonstrate how you delete item 10 from ITEM table and make the field null in the ORDER_ITEM table.
6. List the orders date, items and unit price.
7. Calculate the total of orders for each day.
8. Find out which unit price is lowest.
9. Create a VIEW called Big which show all orders larger than 2000.
10. Select unit price in order processing using subquery. 50

OR

SECTION—B

Consider 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)

1. Create the above details by properly specifying the primary keys and foreign keys.
2. Enter at least five tuples for each relation.

3. Find the author of the book which has maximum sales.
 4. Demonstrate how you increase the price of books published by a specific publisher by 10%.
 5. List all authors whose name begins with a letter 'L'.
 6. Select the price and author using subquery.
 7. Select the order detail ordered by quantity.
 8. Show the total and average quantity of book order.
 9. Create a view called Booking which shows author name, book id, price and year.
 10. Delete the quantity of book orders. 50
- Record book. 10
- Viva voce. 15
