## (2)

#### 2017

(4th Semester)

### BACHELOR OF COMPUTER APPLICATIONS

Paper No.: BCA-402 P

(Oracle Laboratory)

(Practical)

Full Marks: 75

Time: 3 hours

The figures in the margin indicate full marks for the questions

**1.** Consider the insurance database given below. The primary keys are underlined and the data types are specified:

PERSON (driver\_id : string, name : string, address : string)
CAR (Regno : string, model : string, year : int)
ACCIDENT (report\_number : int, date : date, location : string)
OWNS (driver\_id : string, regno : string)

PARTICIPATED (driver\_id : string, regno : string, report\_number : int, damage amount : int)

- (a) Create the above tables by properly specifying the primary keys and the foreign keys.
- (b) Enter at least five tuples for each relation.

(c) Demonstrate the following:

(i) Update the damage amount for the car with a specific regno in accident with report number 12 to 25000

- (ii) Add a new accident to the database
- (d) Find the total number of people who owned cars that were involved in accidents in 2002.
- (e) Find the number of accidents in which cars belonging to a specific model were involved.
- (f) Create a VIEW called OWNERSHIP that will show the following:5Driver name, address, registration and location

#### OR

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

CUSTOMER (<u>cust</u>: int, cname: string, city: string)
ORDER (<u>order</u>: int, odate: date, cust: int, ord\_amt: int)
ORDER\_ITEM (<u>order</u>: int, item: int, qty: int)
ITEM (<u>item</u>: int, unitprice: int)
SHIPMENT (<u>order</u>: int, <u>warehouse</u>: int, ship\_date: date)
WAREHOUSE (warehouse: int, city: string)

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

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(b)	Enter at least five tuples for each relation.  Produce a listing : CUSTNAME, # of	4	(c)	Produce a list of textbooks in alphabetical order for courses offered by BCA department that uses more than		
	orders, AVG_ORDER_AMT, where the middle column is the total number of orders by the customers and the last column is the average order amount for		(d)	twobooks.  List any department that has all its adopted books published by a specific publisher.	4	
(d)	that customer.  List the order # for orders that were	4	(e)	List out student marks in ascending order.	4	
(4)	shipped from all warehouses that the company has in a specified city.	4	(f)	Create a view Black Market that gives the count of number of publishers.	5	
(e)	Demonstrate how you delete item # 10 from ITEM table and make the field null in the ORDER_ITEM table.			OR		
		4	<b>4.</b> Consider the following database for a banking enterprise:			
<i>(f)</i>	Create a VIEW called BIG ORDER which shows all orders larger than 2000.	5	BRANCH (branch_name : string, branch_city : string, asset : real)  ACCOUNT (accno : int, branch_name : string, balance : real)  DEPOSITOR (customer_name : string, accno : int)			
enro each	sider the following database of student illment in courses and books adopted for a course:		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)			
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		g)	(a) (b)	Create the above tables by properly specifying the primary and foreign keys.  Enter five tuples for each relation.	4	
(a)	Create the above tables by properly specifying the primary keys and foreign keys.	4	(c) (d)	Find all the customers who have at least two accounts at the main branch.  Find all the customers who have an account at all the branches located in a	4	
(b)	Enter five tuples for each relation.	4		specified city.	4	
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	(e)	in account table.	5
	(f)	Create a VIEW called Personal Loan that shows customer name, account number	4
		and loan.	4
5.	Viva	voce.	15
6.	Reco	rd book.	10

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