NEW

2015

BCA

3rd Semester Examination

DBMS LAB

PAPER—2196 (SET-1)

(PRACTICAL)

Full Marks : 100

Time : 3 Hours

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Answer any *two* questions (*Lottery Basis*) : 2×25

1. Consider the following database :

employee (e_no, e_name, e_addr, dt_of_joing) work (e_no, p_no)

(a) Find the number of employees who are working on more than one project.

(b) Print name of the employees who are working on project name 'railway reservation system'.

(c) Print the name of the employees who are not working in any project.

(d) Display all information about the employees whose name start with 's'.

(e) Display the names of all employee who have joined after 1st Jan, 2014.

2. Consider the following :

Loan (loan_no, branch_name, amount)

Borrower (Cust_name, loan_no)

Depositor (cust_name, account_no)

Write SQL statements to execute the following :

(a) Create the above scheme using SQL.

(b) Find all customer who have both a Loan and an account at the bank.

(c) Find the Loan number of those Loans with Loan amount between Rs.10,000 to 50,000.

(d) Find all the customers who do have a loan at the bank, but do not have an account at the bank.

(e) List in alphabetic order all the customers who have a loan at the 'contai' Branch.

3. Consider the given database :

Supplier (Sid, Sname, Saddr)

Parts (Pid, Pname, Color)

Catalog (Sid, Pid, Cost)

Write SQL Statements to execute the following :

(a) Create the above scheme in SQL

(b) Find the name of the suppliers who supply 'green' parts.

(c) Increase cost by 30% for parts_id 101, 103 and 105.

(d) Find the name of the suppliers who supply all parts.

(e) Find the name of the parts that has lowest cost.

4. Consider the following database :

Project (project_id, project_name, chief_arch)

Employee (Emp_id, Emp_name)

and perform the following query :

(a) Get employee, name of employees who work on project e_4.

(b) Get employee, numbers of employees who do not work on all projects.

(c) Get employees, number of employees who do not work on those projects that employee 107 works on.

(d) Obtain details of employees working on database project.

5. Consider the following database :

Emp (e_no, e_name, job, hire_data, basic_sal, commission, dept_no).

Dept (dept_no, dept_name, location)

Client_Master (client_no, client_name, address, balance_due).

Product_Master (Prod_no, Description, profit_per, units, qty_available, sell_price, cost_price).

Write SQL Questions —

(a) List names, job and department no of all employees whose names starts with 'S'.

(b) Select the average salaries of each department where dept_no is D002 or D003.

(c) Increase the basic salary of all employees by Rs. 2000/- .

(d) Display a list of all products whose quality is less than 5 and therefore need to be ordered.

(e) Display names of all salesman who have been hired after 30th Auguest, 2015.

6. Consider the following :

EMP (eno, ename, dno, dname, salary, jobstatus)

Assign (pno, ename).

Write SQL statements to execute the following :

(a) Create the above schema using SQL.

(b) Display the name of the employees who are working in the project 'DBMS'.

(c) Display the employee information except the eno 3, 4, 6.

(d) Display those employee who are not working in any project.

(e) Display the employee information of the department with dno = 3, who get more salary than the highest paid employee of the department with dno = 5.

7. Consider the following :

Employee (ename, street, city)

Works (pname, cname, salary)

Company (cname, city)

Manages (pname, mname)

(a) Create the above schema.

(Continued)

(b) Find the name, street and cities of all employees who work for 'TCS' and earn more than 20,000.

(c) Assume that the company may be located in several cities. Find all companies located in every city in which 'WIPRO' is located.

(d) Find the company that has the smallest payroll.

(e) Find all employees who earn more than every employee of 'TCS'.

8. Consider the following tables :

Sailors (sid, sname, rating, age)

Boats (bid, bname, color)

Reserves (sid, bid, day)

Write the following queries in SQL :

(a) Find the names of sailors who have reserved boat number 105.

(b) Find the sides of all sailors who have reserved red boats but not green boats.

(c) Find the names of sailors who are older than the older sailor with a rating of 10.

(d) For each green boat, find the number of reservation for this boat.

9. Consider the following database :

Hotel (h_no, h_name, h_address)

Room (r_no, h_no, type, charge)

Book (h_no, g_no dt_room, dt_to, r_no)

Guest (g_no, g_name, g_address).

(a) List all unoccupied room for the 'Hotel Hindustan'.

(b) List all single rooms with a charge below rupees 2000.

(c) List the details of all guest staying at the 'Hotel Hindustan' from 1st Jan 2016 to 31th Jan 2016.

(d) Find the name of the hotel which offer a room with maximum charge.

10. Consider the following :

Patient (pid, pname, page, pcity)

Doctor (Did, Dname, Dcity

Admitted (pid, data-of-admission)

Attend (Pid, Did)

Write SQL statements to execute the following:

(a) Create the about scheme.

(b) Write the name of the patient who has same city as with his doctor.

(c) Display the name of the patient in ascending order of age with the names of their doctors.

(d) List the doctors name who treat the patient with the date of admission between 1st Jan 2011 to 31st Jan 2012.

***Viva* — 15**

***Practical Note Book* — 05**

***[Internal Assessment* — 30]**