

**F. Y. B. C. A. Semestre 2**  
**ASSIGNMENT- 3**  
**Paper No.: 205**  
**Paper Title: DATABASE MANAGEMENT SYSTEM**

Q.1 Consider the following tables with primary key (underline)-

- (i) Employee (Eno, Ename, DNO, Salary)
- (ii) Dept (DNO, Dname)

Answer the following queries using SQL:

1. Get departments without employees.
2. Get dept and average salary of each department
3. Give all employees of dept d7 a raise of 20% salary.
4. Delete the department D8.
5. Get employee names for employees that either get salary more than 30,000 or are working in dept D8.

Q2. Consider the relational database:

- (i) Sales-People (SNUM, SNAME, CITY, COMMISSION)
- (ii) Customer (CNUM, CNAME, CITY, RATING, SNUM)
- (iii) Orders (ONUM, AMT, ODATE, CNUM, SNUM)

Where CNUM, SNUM, AND ONUM are unique values. Write following queries in SQL.

- (i) Write a query that produces names and ratings of all customers who have above average order.
- (ii) Delete all customers with no current orders.
- (iii) Increase by 20% the commission of all sales persons with total current orders above Rs. 3000.00

Q.3 Create the following tables with appropriate constraint

Studentmaster (studcode, studtname, city, mobile)  
Coursemaster (coursecode, coursename, description)  
Enrollemntmaster (studcode, coursecode, dateofenrol)

Student code should start with 'S'

Course Code should start with 'C'

Do as directed

- (1) Write a query to add column fees in coursemaster
- (2) Find the information of the course in which no student has enrolled.
- (3) Get the detail of the student who have enrolled themselves in course 'C004'
- (4) Get the coursecode along with no of student enrolled. If no student are enrolled in that course then just give course detail
- (5) Get the detail of the student who are enrolled in year 2009
- (6) Get the detail of the course whose fees is maximum
- (7) Find the information of the student who are not enrolled in BBA

- (8) Find the information of the student who lives in NAVSARI and pay 10000 fees
- (9) Give enrollment date wise detail of student.

Q.4 Create the following tables:

1. Student (rollno, name, course\_code, city, age)
2. Fee (rollno, fee, amountpaid)
3. Course (course\_code, course\_name)

Do as directed:

- (1) Display the name of students living in 'Delhi'.
- (2) Count the number of students who have not paid the fees.
- (3) Find out the total amt collected as fess for students whose course name is 'BCA'.
- (4) Display the names of student, whose age is less than 20.
- (5) List the students of 'B.Com.' who have paid the fees.
- (6) Give details of students for 'B.A'. Course.
- (7) Delete all the students from stu\_mast table whose course\_code is "MCA"
- (8) Change the city of students to "Bombay" whose name starts with "B".

Q.5 Create the following tables

Book\_mast (book\_no, book\_name, author, publisher, no\_of\_copy)

Stud\_mast (lib\_no, stud\_name, book\_no, no\_of\_copy)

Transaction (trans\_no, trans\_type, lib\_no, book\_no, no\_of\_copy, trans\_date)

Give transaction type = "I" for Issue and "R" for return

Do as directed:

- (1) Display all student names that have more than two books.
- (2) Display all books whose publisher is "Pearson Education".
- (3) Display all students who have "MATHEMATICS" book.
- (4) Delete records from stud\_mast for all students who have "ORACLE" book.
- (5) Change transaction type to "R" (Return) for all transaction whose transaction type is "I" (Issue) and book\_name = "Let US C"
- (6) Display all student name who get book publisher "BPB"
- (7) Display the name of book which are issued maximum time.
- (8) Display the name of all book issued to student "Raj Kumar".
- (9) Display how many books are available for issue, which title is 'C++'.
- (10) Display all books with no of copies.
- (11) Display all book name which are reissued on '10/2/2012'

Q6. Create following tables:

Vehicle (v\_id, name, color, price, company)

Customer(c\_id, name, address, phoneno, email)

Sell (v\_id, c\_id, sell\_date, amount)

Constraints:

V\_id and c\_id should be declared as primary key while creating table.

The color value must be red, black or while

Create appropriate relationship between tables.

Write SQL statements for following:

1. Add new column tax in vehicle table.
2. Display the vehicles, which are not sold in last one year.
3. Display vehicles with maximum profit.
4. Display vehicle with highest sell
5. Display total amount of sale of each vehicle.
6. Display total number of vehicle of same company.
7. Display vehicle details purchased in current month.
8. Display total vehicles with red color.
9. Display vehicle details whose name starts with 'H'.
10. Count total vehicle sale in current month whose company name contains minimum 10 characters.