**DBMS Lab Examination**

**Note:** Students can select any one problem statement for execution.

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| **RollNo** | **StudentName** | **Problem Statement 1** | **Problem Statement 2** |
| 3301 | Aashish Ramesh Koshti | Create a movie database as follows:  Movie (m-id, title, release-date, rank)  Director (d-id, fname, lname, gender)  Direct (m-id, d-id)  Actor (a-id, f\_name, l\_name)  Cast (m-id, a-id, role)  1. Create table for above schemas. (It should include table create, drop, alter and update commands)  2. Create a view for listing all movies directed by ‘XYZ’ director. Alter this view for listing all movies of ‘XYZ’ director having rank ‘A’. Rename the view. Perform DML (insert, delete and update) operations on views.  3. Create, alter and drop index on Actor and Cast table.  4. Create sequence for required columns. | Create table for following schema and insert suitable data into it:  1. N\_RollCall(RollNo,Name, Branch, Year, Attendance\_Percentage, Event)  2. O\_RollCall(RollNo,Name, Branch, Year, Attendance\_Percentage, Event)  Write a PL/SQL block of code to perform below operations:-  1. Write a PL/SQL block using cursor to count total number of rows updated after increasing attendance of students participated in cultural events by 20% . (IMPLICIT Cursor) |
| 3302 | Abhishek Bisht | Create table for following schema and insert suitable data into it:  1. Borrower(Rollin, Name, DateofIssue, NameofBook, Status)  2. Fine(Roll\_no,Date,Amt)  Write a PL/SQL block of code to perform below operations:-  1. Accept roll\_no & name of book from user. (at present assign values to variables in program only)  2. Check the number of days (from date of issue), if days are between 15 to 30 then fine amounts will be Rs 5per day. If no. of days>30, per day fine will be Rs 50 per day & for days less than 30, Rs. 5 per day. (Use Control structure). | Create Employee object using JSON |
| 3303 | Abhishek Kumar | Create an employee database as follows:  Employee (e-id, name, street,city)  Works (e-id, company\_name, salary)  Company (company\_name, city)  Manages (e-id, dept\_name)  **Using Subquery**  1. Find employee details working in “ABC Corp” and “Amazon”.  2. List of all employees details who are managers.  3. Give count of employees working in each company. | 1. Create a student collection in MongoDB. Assume suitable fields.  2. Write a MongoDB query to display all the documents in the collection student.  3. Find the strength of students for each branch. |
| 3304 | Abhishek Kumar Singh | Create table for following schema and insert suitable data into it:  1. Stud\_Marks(RollNo,name, total\_marks)  2. Result(Roll,Name, Class)  Write a PL/SQL block of code to perform below operations:-  1. Write a function comp\_Grade() to compute grade of student as follows:  • If marks scored by students in examination is <=1500 and marks >=990 then student will be placed in distinction category  • if marks scored are between 989 and 900 category is first class,  • if marks 899 and 825 category is Higher Second Class | Create a Banking database as follows:  Branch (branch\_name, branch\_city, assets)  Customer (c-id, cname, street, city)  Loan (loan\_no, branch\_name, amount)  Borrower (c-id, loan\_no)  Account (account\_no , branch\_name, balance)  Depositor(c-id, account\_no)  1. Create table for above schemas. (It should include table create, drop, alter and update commands)  2. Create a view for listing all names of customer having account (Saving/current) in “Pune” branch . Alter this view for listing all customers from “Pune” branch having balance greater than 20000 Rs. Rename the view. Perform DML (insert, delete and update) operations on views.  3. Create, alter and drop index on customer and depositor table.  4. Create sequence for required columns. |
| 3305 | Abhishek Kumar Yadav | 1. Create an employee collection in MongoDB. Assume suitable fields.  2. Insert single document in a collection  3. Display all documents in a collection  4. Increase salary of an employee working in computer department by 10%.  5. Count number of dependents of each employee | Create an employee database as follows:  Employee (e-id, name, street,city)  Works (e-id, company\_name, salary)  Company (company\_name, city)  Manages (e-id, dept\_name)  1. Create a table for above schemas. (It should include table create, drop, alter and update commands)  2. Create a view for listing all employees working in ‘ABC’ company. Alter this view for listing all employees of ‘ABC’ company having salary greater than 50000 Rs. Rename the view. Perform DML (insert, delete and update) operations on views.  3. Create, alter and drop index on Employee and Company table.  4. Create sequence for required columns. |
| 3306 | Ajay Kahlan | Create table for following schema and insert suitable data into it:  1. N\_RollCall(RollNo,Name, Branch, Year, Attendance\_Percentage, Event)  2. O\_RollCall(RollNo,Name, Branch, Year, Attendance\_Percentage, Event)  Write a PL/SQL block to display student details from computer department. (EXPLICIT Cursor) | Create a movie database as follows:  Movie (m-id, title, release-date, rank, budget)  Director (d-id, fname, lname, gender)  Direct (m-id, d-id)  Actor (a-id, f\_name, l\_name, Salary)  Cast (m-id, a-id, role)  **Using Sub-query**  1. Find all actors from “Sholay” and “K3G”.  2. Find movie title and director name of top 5 movie arranged in descending order in 2019.  3. Find total number of actors casted in each movie.  4. List role of actor having salary greater than 200000. |
| 3307 | Ajay Kumar Dangi | Create a Banking database as follows:  Branch (branch\_name, branch\_city, assets)  Customer (c-id, cname, street, city)  Loan (loan\_no, branch\_name, amount)  Borrower (c-id, loan\_no)  Account (account\_no , branch\_name, balance)  Depositor(c-id, account\_no)  **Using Subquery**  1. Find customer details having loan in “HDFC” and “ICICI”.  2. List customer details who are borrower as well as depositor in a branch.  3. Give count of depositors in each branch.  4. Find all customer details having loan amount greater than average balance at “XYZ” branch.  5. Find customer names from each branch who have highest balance. | Create table for following schema and insert suitable data into it:  1. N\_RollCall(RollNo,Name, Branch, Year, Attendance\_Percentage, Event)  2. O\_RollCall(RollNo,Name, Branch, Year, Attendance\_Percentage, Event)  Write a PL/SQL block to show student detail having attendance greater than 60% (Cursor FOR) |
| 3308 | Akash Singh | Employee (e-id, name, street,city)  Works (e-id, company\_name, salary)  Company (company\_name, city)  Manages (e-id, dept\_name)  1. Create a table for above schemas. (It should include table create, drop, alter and update commands)  2. Create a view for listing all employees working in ‘ABC’ company. Alter this view for listing all employees of ‘ABC’ company having salary greater than 50000 Rs. Rename the view. Perform DML (insert, delete and update) operations on views.  3. Create, alter and drop index on Employee and Company table.  4. Create sequence for required columns. | Create table for following schema and insert suitable data into it:  1. Library(BookNo, name, author, publication, year)  2. Library\_Audit(BookNo, name, author, publication, year)  Write a PL/SQL block of code to perform below operations:-  1. Create an after trigger to keep track of delete operation on Library table and add the old value of deleted records in Library\_Audit table |
| 3309 | Aman Semwal | Create Employee object using JSON | Create table for following schema and insert suitable data into it:  1. Library(BookNo, name, author, publication, year)  2. Library\_Audit(BookNo, name, author, publication, year)  Write a PL/SQL block of code to perform below operations:-  1. Update Library table and change publication to “Pearson Education” where author is “Korth” and create a statement level trigger to count total number of rows affected from this update. |
| 3310 | Amandeep Rawat | Create an employee database as follows:  Employee (e-id, name, street,city)  Works (e-id, company\_name, salary)  Company (company\_name, city)  Manages (e-id, dept\_name)  1.Delete records of all employees having salary between 20000 Rs and 50000 Rs.  2. Select all company names where city name starts with ‘P’.  3. List all employees from (“Amazon”, “Flipkart”, “Google”) companies.  4. What is the average salary of employees working in “ABC Corp”.  5. Find total number of employees working in “Amazon”. | Create an array of employee objects using JSON |
| 3311 | Anjali | Create table for following schema and insert suitable data into it:  1. Borrower(Rollin, Name, DateofIssue, NameofBook, Status)  2. Fine(Roll\_no,Date,Amt)  Write a PL/SQL block of code to perform below operations:-  1. Check the number of days (from date of issue), if days are between 15 to 30 then fine amounts will be Rs 5per day. If no. of days>30, per day fine will be Rs 50 per day & for days less than 30, Rs. 5 per day. (Use Control structure).  2. After submitting the book, change status (column in Borrower table) from I to R. (I-issue and R-return) | Branch (branch\_name, branch\_city, assets)  Customer (c-id, cname, street, city)  Loan (loan\_no, branch\_name, amount)  Borrower (c-id, loan\_no)  Account (account\_no , branch\_name, balance)  Depositor(c-id, account\_no)  1. Create table for above schemas. (It should include table create, drop, alter and update commands)  2. Create a view for listing all names of customer having account (Saving/current) in “Pune” branch . Alter this view for listing all customers from “Pune” branch having balance greater than 20000 Rs. Rename the view. Perform DML (insert, delete and update) operations on views.  3. Create, alter and drop index on customer and depositor table.  4. Create sequence for required columns. |
| 3312 | Anmol Majhi | 1. Create a student collection in MongoDB. Assume suitable fields.  2. Write a MongoDB query to display all the documents in the collection student.  3. Update marks of student “Ram”.  4. Fetch documents having CGPA 9 or branch as Computer.  5. Fetch documents not having branch as “IT”. | Create table for following schema and insert suitable data into it:  1. N\_RollCall(RollNo,Name, Branch, Year, Attendance\_Percentage, Event)  2. O\_RollCall(RollNo,Name, Branch, Year, Attendance\_Percentage, Event)  Write a PL/SQL block of code to perform below operations:-  1. Write a PL/SQL block using cursor to count total number of rows updated after increasing attendance of students participated in cultural events by 20% . (IMPLICIT Cursor) |
| 3313 | Aravind | Create table for following schema and insert suitable data into it:  1. Borrower(Rollin, Name, DateofIssue, NameofBook, Status)  2. Fine(Roll\_no,Date,Amt)  Write a PL/SQL block of code to perform below operations:-  1. Accept roll\_no & name of book from user. (at present assign values to variables in program only)  2. Check the number of days (from date of issue), if days are between 15 to 30 then fine amounts will be Rs 5per day. If no. of days>30, per day fine will be Rs 50 per day & for days less than 30, Rs. 5 per day. (Use Control structure). | Create Employee object using JSON |
| 3314 | Arya Kushwah | 1. Create an employee collection in MongoDB. Assume suitable fields.  2. Insert single document in a collection  3.Find highest salary in “Mechanical” department.  4. Count number of dependents of each employee.  5. Find total number of employees working in the company | Create table for following schema and insert suitable data into it:  1. Library(BookNo, name, author, publication, year)  2. Library\_Audit(BookNo, name, author, publication, year)  Write a PL/SQL block of code to perform below operations:-  Create a before trigger to keep track of update operation on Library table and add the old value of updated records in Library\_Audit table |
| 3315 | Ashish Ahlawat | Create table for following schema and insert suitable data into it:  1. Stud\_Marks(RollNo,name, total\_marks)  2. Result(Roll,Name, Class)  Write a PL/SQL block of code to perform below operations:-  1. Write a function comp\_Grade() to compute grade of student as follows:  • If marks scored by students in examination is <=1500 and marks >=990 then student will be placed in distinction category  • if marks scored are between 989 and 900 category is first class,  • if marks 899 and 825 category is Higher Second Class  2. Write a stored procedure proc\_Grade() which will call above created function comp\_Grade() and update entries into Result table with roll number, name and class retuned by function. | 1. Create an employee collection in MongoDB. Assume suitable fields.  2. Insert single document in a collection  3. Insert multiple documents at a time in a collection  4. Display all documents in a collection  5. Increase salary of an employee working in computer department by 10%.  6. Update address of employee named “Ram”. |
| 3316 | Ashish Kumar Singh | Branch (branch\_name, branch\_city, assets)  Customer (c-id, cname, street, city)  Loan (loan\_no, branch\_name, amount)  Borrower (c-id, loan\_no)  Account (account\_no , branch\_name, balance)  Depositor(c-id, account\_no)  1. Insert values into above created tables  2. List all customers who borrowed loan from (“XYZ”, “ABC”, “PQR”) branches. (IN operator)  3. What is the average account balance of “XYZ” branch.  4. Find total number of customer having account in “ABC” branch  5. Find Maximum and Minimum loan amount of “PQR” branch.  6. Find total account balance of “XYZ” branch. | Create an array of employee objects using JSON |
| 3317 | Ashok Kumar | Create table for following schema and insert suitable data into it:  1. Library(BookNo, name, author, publication, year)  2. Library\_Audit(BookNo, name, author, publication, year)  Write a PL/SQL block of code to perform below operations:-  1. Create a row level trigger which will not allow new entry into Library table if year of publication is before 2005.  2. Update Library table and change publication to “Pearson Education” where author is “Korth” and create a statement level trigger to count total number of rows affected from this update. | Create a movie database as follows:  Movie (m-id, title, release-date, rank)  Director (d-id, fname, lname, gender)  Direct (m-id, d-id)  Actor (a-id, f\_name, l\_name)  Cast (m-id, a-id, role)  1. Select all movie names where title starts with ‘K’.  2. List all actors from (“Dangal”, “War”, “PK”) movies.(IN operator)  3. What is the average pay of actors casted in “Airlift”.  4. Find total number of actors working in “Lagaan”.  5. Find Maximum and Minimum pay of actor in “PK”. |
| 3318 | Ashutosh Singh | Create Employee object using JSON | Create a movie database as follows:  Movie (m-id, title, release-date, rank)  Director (d-id, fname, lname, gender)  Direct (m-id, d-id)  Actor (a-id, f\_name, l\_name)  Cast (m-id, a-id, role)  1. Create table for above schemas. (It should include table create, drop, alter and update commands)  2. Create a view for listing all movies directed by ‘XYZ’ director. Alter this view for listing all movies of ‘XYZ’ director having rank ‘A’. Rename the view. Perform DML (insert, delete and update) operations on views.  3. Create, alter and drop index on Actor and Cast table |
| 3319 | Ashutosh Kumar Singh | Create a Banking database as follows:  Branch (branch\_name, branch\_city, assets)  Customer (c-id, cname, street, city)  Loan (loan\_no, branch\_name, amount)  Borrower (c-id, loan\_no)  Account (account\_no , branch\_name, balance)  Depositor(c-id, account\_no)  1. Create table for above schemas. (It should include table create, drop, alter and update commands)  2. Insert values into above created tables  3. Select names of all customers who have loan account at Mumbai branch.  4. Update (increase) the loan amount of customer whose c-id is “1211” by 100000 Rs.  5. Delete records of all customers having account balance between 30000 Rs and 80000 Rs. | Create table for following schema and insert suitable data into it:  1. Stud\_Marks(RollNo,name, total\_marks)  2. Result(Roll,Name, Class)  Write a PL/SQL block of code to perform below operations:-  1. Write a function comp\_Grade() to compute grade of student as follows:  • If marks scored by students in examination is <=1500 and marks >=990 then student will be placed in distinction category  • if marks scored are between 989 and 900 category is first class,  • if marks 899 and 825 category is Higher Second Class |
| 3320 | Ayush Negi | Create a movie database as follows:  Movie (m-id, title, release-date, rank)  Director (d-id, fname, lname, gender)  Direct (m-id, d-id)  Actor (a-id, f\_name, l\_name)  Cast (m-id, a-id, role)  1. Select details of movie directed by “Yash Chopra”.  2. Assume different actors with same first and last name and accordingly have entries into respective table. Now select list of all distinct f\_name and l\_name from Actor table.  3. Update the release date of movie “Sholay” and add Pay (money offered for his work) column in Actor table.  4. Update (increase) the pay of actor working in “Ram-Lakhan” by 60000 Rs.  5. Delete records of all actors having pay between 40000 Rs and 70000 Rs. | Create table for following schema and insert suitable data into it:  1. Library(BookNo, name, author, publication, year)  2. Library\_Audit(BookNo, name, author, publication, year)  Write a PL/SQL block of code to perform below operations:-  1. Create a before trigger to keep track of update operation on Library table and add the old value of updated records in Library\_Audit table.  2. Create an after trigger to keep track of delete operation on Library table and add the old value of deleted records in Library\_Audit table. |
| 3321 | Ayush Shukla | 1. Create a student collection in MongoDB. Assume suitable fields.  2. Write a MongoDB query to display all the documents in the collection student.  3. Find the details of student securing minimum marks in “TOC”.  4. Create indexes on student’s roll number and PRN. | Create an employee database as follows:  Employee (e-id, name, street,city)  Works (e-id, company\_name, salary)  Company (company\_name, city)  Manages (e-id, dept\_name)  **Using Subquery**  1. Find employee details working in “ABC Corp” and “Amazon”.  2. List of all employees details who are managers.  3. Give count of employees working in each company.  4. Find all employees having salary greater than average salary of employees from “Google”.  5. Find employee names who are managing companies from “Mumbai” city |
| 3322 | DEEPAK KUMAR UPADHYAY | Create a Banking database as follows:  Branch (branch\_name, branch\_city, assets)  Customer (c-id, cname, street, city)  Loan (loan\_no, branch\_name, amount)  Borrower (c-id, loan\_no)  Account (account\_no , branch\_name, balance)  Depositor(c-id, account\_no)  1. Select names of all customers who have loan account at Mumbai branch.  2. Assume customer have multiple accounts (saving/ cheking) in specific branch. Accordingly have entries into respective table. Now select list of all distinct customer IDs from Depositor table.  3. Update the city of “XYZ” branch.  4. Update (increase) the loan amount of customer whose c-id is “1211” by 100000 Rs.  5. Delete records of all customers having account balance between 30000 Rs and 80000 Rs | Create table for following schema and insert suitable data into it:  1. Library(BookNo, name, author, publication, year)  2. Library\_Audit(BookNo, name, author, publication, year)  Write a PL/SQL block of code to perform below operations:-  1. Create a row level trigger which will not allow new entry into Library table if year of publication is before 2005.  2. Update Library table and change publication to “Pearson Education” where author is “Korth” and create a statement level trigger to count total number of rows affected from this update |