

A.Y. 2022-23 | Semester - II

Lab Manual

21CS01201 - Database Management System - I

| Sr. | | Practical | |
|-------|----|---|--|
| Lab-1 | 1. | Why Database? Advantages of Database. | |
| | 2. | Different types of Databases & tools/editors available for it. | |
| | 3. | What is SQL? & Components of SQL (DDL, DML, DCL, DQL, TCL) | |
| | 4. | Introduction to Editor (SQL Server Management Studio). | |
| | 5. | 5. Introduction to Database, Table, Field, Row, Record. | |
| | 6. | Introduction to various data types INT, CHAR, VARCHAR, DATETIME, BIT, DECIMAL | |

Lab-2 Create Database with Name: BANK_INFO

Create following tables under BANK_INFO database. (Any two with Design Mode)

| DEPOSIT | |
|-------------|--------------|
| Column_Name | DataType |
| ACTNO | INT |
| CNAME | VARCHAR(50) |
| BNAME | VARCHAR(50) |
| AMOUNT | DECIMAL(8,2) |
| ADATE | DATETIME |

| BRANCH | |
|-------------|-------------|
| Column_Name | DataType |
| BNAME | VARCHAR(50) |
| CITY | VARCHAR(50) |

| CUSTOMERS | | |
|-------------|-------------|--|
| Column_Name | DataType | |
| CNAME | VARCHAR(50) | |
| CITY | VARCHAR(50) | |

| BORROW | | |
|-------------|--------------|--|
| Column_Name | DataType | |
| LOANNO | INT | |
| CNAME | VARCHAR(50) | |
| BNAME | VARCHAR(50) | |
| AMOUNT | DECIMAL(8,2) | |

Insert the data into tables using query as shown below. (Any two with design) DEPOSIT

| ACTNO | CNAME | BNAME | AMOUNT | ADATE |
|-------|---------|-------------|---------------|----------|
| 101 | ANIL | VRCE | 1000.00 | 1-3-95 |
| 102 | SUNIL | AJNI | 5000.00 | 4-1-96 |
| 103 | MEHUL | KAROLBAGH | 3500.00 | 17-11-95 |
| 104 | MADHURI | CHANDI | 1200.00 | 17-12-95 |
| 105 | PRMOD | M.G. ROAD | 3000.00 | 27-3-96 |
| 106 | SANDIP | ANDHERI | 2000.00 | 31-3-96 |
| 107 | SHIVANI | VIRAR | 1000.00 | 5-9-95 |
| 108 | KRANTI | NEHRU PLACE | 5000.00 | 2-7-95 |
| 109 | MINU | POWAI | 7000.00 | 10-8-95 |



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BRANCH

| BNAME | CITY |
|-------------|----------|
| VRCE | NAGPUR |
| AJNI | NAGPUR |
| KAROLBAGH | DELHI |
| CHANDI | DELHI |
| DHARAMPETH | NAGPUR |
| M.G. ROAD | BANGLORE |
| ANDHERI | BOMBAY |
| VIRAR | BOMBAY |
| NEHRU PLACE | DELHI |
| POWAI | BOMBAY |

CUSTOMERS

| CNAME | CITY |
|---------|----------|
| ANIL | CALCUTTA |
| SUNIL | DELHI |
| MEHUL | BARODA |
| MANDAR | PATNA |
| MADHURI | NAGPUR |
| PRAMOD | NAGPUR |
| SANDIP | SURAT |
| SHIVANI | BOMBAY |
| KRANTI | BOMBAY |
| NAREN | BOMBAY |

BORROW

| LOANNO | CNAME | BNAME | AMOUNT |
|--------|---------|-------------|---------|
| 201 | ANIL | VRCE | 1000.00 |
| 206 | MEHUL | AJNI | 5000.00 |
| 311 | SUNIL | DHARAMPETH | 3000.00 |
| 321 | MADHURI | ANDHERI | 2000.00 |
| 375 | PRMOD | VIRAR | 8000.00 |
| 481 | KRANTI | NEHRU PLACE | 3000.00 |

2.1 From the above given tables perform the following queries using SELECT statement:

- 1. Retrieve all data from table DEPOSIT.
- 2. Retrieve all data from table BORROW.
- 3. Retrieve all data from table CUSTOMERS.
- 4. Display Account No, Customer Name & Amount from DEPOSIT.
- 5. Display Loan No, Amount from BORROW.
- 6. Display loan details of all customers who belongs to 'ANDHERI' branch.
- 7. Give account no and amount of depositor, whose account no is equals to 106.
- 8. Give name of borrowers having amount greater than 5000.
- 9. Give name of customers who opened account after date '1-12-96'.
- 10. Display name of customers whose account no is less than 105.
- 11. Display name of customer who belongs to either 'NAGPUR' Or 'DELHI'. (OR & IN)
- 12. Display name of customers with branch whose amount is greater than 4000 and account no is less than 105.
- 13. Find all borrowers whose amount is greater than equals to 3000 & less than equals to 8000.

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(AND & BETWEEN)

- 14. Find all depositors who do not belongs to 'ANDHERI' branch.
- 15. Display the name of borrowers whose amount is NULL.
- 16. Display Account No, Customer Name & Amount of such customers who belongs to 'AJNI', 'KAROLBAGH' Or 'M.G. ROAD' and Account No is less than 104.
- 17. Display all the details of first five customers.
- 18. Display all the details of first three depositors whose amount is greater than 1000.
- 19. Display Loan No, Customer Name of first five borrowers whose branch name does not belongs to 'ANDHERI'.
- 20. Retrieve all unique cities using DISTINCT. (Use Customers Table)
- 21. Retrieve all unique branches using DISTINCT. (Use Branch Table)
- 22. Retrieve all the records of customer table as per their city name in ascending order.
- 23. Retrieve all the records of deposit table as per their amount column in descending order.
- 24. Retrieve all the details of customers in which decending order of their city name.
- 25. Show all unique borrowers & label the column UNI_Borrowers. (Display only Names)

2.2 From the above given tables perform the following queries using UPDATE statement:

- 1. Update deposit amount of all customers from 3000 to 5000.
- 2. Change branch name of ANIL from VRCE to C.G. ROAD. (Use **Borrow Table**)
- 3. Update Account No of SANDIP to 111 & Amount to 5000.
- 4. Give 10% Increment in Loan Amount.
- 5. Update deposit amount of all depositors to 5000 whose account no between 103 & 107.
- 6. Update amount of loan no 321 to NULL.
- 7. Change Loan number from 201 to 401 & also change branch name from VRCE to AJNI.
- 8. Modify customer name ANIL to ANIL JAIN.
- 9. Change Name to Ramesh, Branch Name VRCE & Amount 5500, Whose Account Number is 102.
- 10. Make Branch Name & Amount NULL, Whose Loan Number is 481 & Name is KRANTI.

2.3 From the above given tables perform the following queries using DELETE/DROP/TRUNCATE statement:

- 1. Delete records of Customer table who belongs to BOMBAY City.
- 2. Delete all account numbers whose amount less than equals to 1000.
- 3. Delete borrowers whose branch name is 'AJNI'.
- 4. Delete all the borrowers whose loan number between 201 to 210.
- 5. Delete customers who opened account after date '1-12-96'. (Use **DEPOSIT** table)
- 6. Delete all the records of Customers table. (Use TRUNCATE)
- 7. Remove all customers whose name is ANIL & Account Number is 101.
- 8. Delete all the depositors who do not belongs to 'ANDHERI' branch.
- 9. Delete all the borrowers whose loan amount is less than 2000 and does not belong to VRCE branch.
- 10. Remove Branch table. (Use **DROP**)

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Lab-3 Create following table using query according to the definition.

| Student | | |
|---------------|--------------|--|
| Column_Name | DataType | |
| Enrollment_No | VARCHAR(20) | |
| Name | VARCHAR(25) | |
| CPI | DECIMAL(5,2) | |
| Birthdate | DATETIME | |

From the above given table perform the following queries using ALTER statement:

- 1. Add two more columns City VARCHAR (20) NULL and Backlog INT NOT NULL.
- 2. Change the size of NAME column of student from VARCHAR (25) to VARCHAR (35).
- 3. Change the data type DECIMAL to INT in CPI Column.
- 4. Rename Column Enrollment No to ENO.
- 5. Delete Column City from the STUDENT table.
- 6. Change name of table STUDENT to STUDENT_MASTER.
- 7. Remove Column Backlog from the table.
- 8. Change Constraint of Name Column from NULL to NOT NULL.
- 9. Rename Column Birthdate to BDate.
- 10. Change the datatype of ENO Column from VARCHAR (20) to VARCHAR (12)

Lab-4 Constraints:

Define Primary Key, Foreign Key, Unique Key, Auto Increment, Default Values, NULL, NOT NULL, Check constraints as given below.

| Student_Master | | |
|----------------|--------------|---|
| | | |
| StudentID | Int | Primary Key, Auto Increment, Not Null |
| Enrollment_No | VARCHAR(20) | Unique Key, Not Null |
| Name | VARCHAR(25) | Not Null |
| CPI | DECIMAL(5,2) | Do not allow SPI more than 10, Null |
| JoiningDate | DATETIME | Set Default value getdate(), Not Null |
| Bklog | Int | Do not allow Bklog less than 0, Not Null |
| CityID | Int | Foreign Key, Not Null |
| StateName | VARCHAR(50) | Default value as 'Gujarat' in StateName to all new records If no other value is Specified |

| City_Master | | |
|-------------|-------------|---------------------------------------|
| | | |
| CityID | Int | Primary Key, Auto Increment, Not Null |
| CityName | VARCHAR(20) | Unique Key, Not Null |
| PinCode | VARCHAR(10) | Null |
| STDCode | VARCHAR(10) | Null |





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Lab-5 Create following table using query according to the definition.

| Students | |
|-------------|-------------|
| Column_Name | DataType |
| StuID | INT |
| FirstName | VARCHAR(25) |
| LastName | VARCHAR(25) |
| Website | VARCHAR(50) |
| City | VARCHAR(25) |
| Division | VARCHAR(20) |

Insert the following records in the Students table.

| StulD | FirstName | LastName | Website | City | Division |
|-------|-----------|----------|-------------------|-----------|----------|
| 1011 | Keyur | Patel | techonthenet.com | Rajkot | II-BCX |
| 1022 | Hardik | Shah | digminecraft.com | Ahmedabad | I-BCY |
| 1033 | Kajal | Trivedi | bigactivities.com | Baroda | IV-DCX |
| 1044 | Bhoomi | Gajera | checkyourmath.com | Ahmedabad | III-DCW |
| 1055 | Harmit | Mitel | NULL | Rajkot | II-BCY |
| 1066 | Ashok | Jani | NULL | Baroda | II-BCZ |

From the above given tables perform the following queries using LIKE Operator:

- 1. Display the name of students whose name starts with 'k'.
- 2. Display the name of students whose name consists of five characters.
- 3. Retrieve the first name & last name of students whose city name ends with a & contains six characters.
- 4. Display all the students whose last name ends with 'tel'.
- 5. Display all the students whose first name starts with 'ha' & ends with 't'.
- 6. Display all the students whose first name starts with 'k' and third character is 'y'.
- 7. Display the name of students having no website and name consists of five characters.
- 8. Display all the students whose last name consist of 'jer'.
- 9. Display all the students whose city name starts with either 'r' or 'b'.
- 10. Display all the name students having websites.
- 11. Display all the students whose name starts from alphabet A to H.
- 12. Display all the students whose name's second character is vowel.
- 13. Display student's name whose city name consist of 'rod'.
- 14. Retrieve the First & Last Name of students whose website name starts with 'bi'.
- 15. Display student's city whose last name consists of six characters.
- 16. Display all the students whose city name consist of five characters & not starts with 'ba'.
- 17. Show all the student's whose division starts with 'II'.
- 18. Find out student's first name whose division contains 'bc' anywhere in division name.
- 19. Show student id and city name in which division consist of six characters and having website name.
- 20. Display all the students whose name's third character is consonant.



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Lab-6 | Math functions

- 1. Display the result of 5 multiply by 30.
- 2. Find out the absolute value of -25, 25, -50 and 50.
- 3. Find smallest integer value that is greater than or equal to 25.2, 25.7 and -25.2.
- 4. Find largest integer value that is smaller than or equal to 25.2, 25.7 and -25.2.
- 5. Find out remainder of 5 divided 2 and 5 divided by 3.
- 6. Find out value of 3 raised to 2nd power and 4 raised 3rd power.
- 7. Find out the square root of 25, 30 and 50.
- 8. Find out the square of 5, 15, and 25.
- 9. Find out the value of PI.
- 10. Find out round value of 157.732 for 2, 0 and -2 decimal points.
- 11. Find out exponential value of 2 and 3.
- 12. Find out logarithm having base b having value 10 of 5 and 100.
- 13. Find sine, cosine and tangent of 3.1415.
- 14. Find sign of -25, 0 and 25.
- 15. Generate random number using function.

String functions

- 1. Find the length of following. (I) NULL (II) 'hello' (III) Blank
- 2. Display your name In lower & upper case.
- 3. Display first three characters of your name.
- 4. Display 3rd to 10th character of your name.
- 5. Write a query to convert 'abc123efg' to 'abcXYZefg' & 'abcabcabc' to 'ab5ab5ab5' using REPLACE.
- 6. Write a query to display ASCII code for 'a','A','z','Z', 0, 9.
- 7. Write a query to display character based on number 97, 65,122,90,48,57.
- 8. Write a query to remove spaces from left of a given string 'hello world
- 9. Write a query to remove spaces from right of a given string 'hello world'.
- 10. Write a query to display first 4 & Last 5 characters of 'SQL Server'.
- 11. Write a query to convert a string '1234.56' to number (Use CAST()).
- 12. Write a query to convert a float 10.58 to integer (Use CONVERT()).
- 13. Put 10 space before your name using function.
- 14. Combine two strings (Your name & Surname) using + sign as well as CONCAT ().
- 15. Find reverse of "Darshan".
- 16. Repeat your name 3 times.
- 17. Delete 3 characters from a string, starting in position 1, and then insert "HTML" in position 1. (Use STUFF())
- 18. From Data, returns the first non-null value in a list. (Use COALESCE())
- 19. Tests whether the expression is numeric. (Use ISNUMERIC())
- 20. Search for "t" in string "Customer", and return its position. (Use CHARINDEX())



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Lab-7 Date Functions

- 1. Write a query to display the current date & time. Label the column Today_Date.
- 2. Write a query to find new date after 365 day with reference to today.
- 3. Display the current date in a format that appears as may 5 1994 12:00AM.
- 4. Display the current date in a format that appears as 03 Jan 1995.
- 5. Display the current date in a format that appears as Jan 04, 96.
- 6. Write a query to find out total number of months between 31-Dec-08 and 31-Mar-09.
- 7. Write a guery to find out total number of years between 25-Jan-12 and 14-Sep-10.
- 8. Write a query to find out total number of hours between 25-Jan-12 7:00 and 26-Jan-12 10:30.
- 9. Write a query to extract Day, Month, Year from given date 12-May-16.
- 10. Write a guery that adds 5 years to current date.
- 11. Write a query to subtract 2 months from current date.
- 12. Extract month from current date using datename () and datepart () function.
- 13. Write a query to find out last date of current month.
- 14. Write a query to display date & time after 30 days from today.
- 15. Calculate your age in years and months.

Aggregate Functions

Create table Student_Marks with Sid int not null, SName varchar (50) not null & Marks int not null
columns & insert records as given below.

| Student Marks | | | |
|---------------|--------|-------|--|
| Sid | SName | Marks | |
| 1 | John | 90 | |
| 2 | Martin | 80 | |
| 3 | Carol | 89 | |
| 4 | Jack | 99 | |
| 5 | Rose | 88 | |
| 6 | Mary | 90 | |

- 1. Find total number of students.
- 2. Find total of marks scored by all students.
- 3. Find average marks of all students.
- 4. Find minimum marks scored from all students.
- 5. Find maximum marks scored from all students.



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Lab-8 | Aggregate Functions

| Employee | | | | | |
|----------|--------|------------|--------|-------------|-----------|
| EID | EName | Department | Salary | JoiningDate | City |
| 101 | Rahul | Admin | 56000 | 1-Jan-90 | Rajkot |
| 102 | Hardik | IT | 18000 | 25-Sep-90 | Ahmedabad |
| 103 | Bhavin | HR | 25000 | 14-May-91 | Baroda |
| 104 | Bhoomi | Admin | 39000 | 8-Feb-91 | Rajkot |
| 105 | Rohit | IT | 17000 | 23-Jul-90 | Jamnagar |
| 106 | Priya | IT | 9000 | 18-Oct-90 | Ahmedabad |
| 107 | Neha | HR | 34000 | 25-Dec-91 | Rajkot |

- Create table Employee with EID int not null, EName varchar (50) not null, Department varchar (50) not null, Salary Decimal (8,2) not null, JoiningDate datetime not null & City varchar (50) not null.
- 1. Display the Highest, Lowest, Total, and Average salary of all employees & label the columns Maximum, Minimum, Total_Sal and Average_Sal, respectively.
- 2. Find total number of employees of EMPLOYEE table.
- 3. Retrieve maximum salary from IT department.
- 4. Count total number of cities of employee without duplication.
- 5. Display city with the total number of employees belonging to each city.
- 6. Display city having more than one employee.
- 7. Give total salary of each department of EMPLOYEE table.
- 8. Give average salary of each department of EMPLOYEE table without displaying the respective department name.
- 9. Give minimum salary of employee who belongs to Ahmedabad.
- 10. List the departments having total salaries more than 50000 and located in city Rajkot.
- 11. Count the number of employees living in Rajkot.
- 12. Display the difference between the highest and lowest salaries. Label the column name to SAL DIFFERENCE.
- 13. Display the total number of employees hired before 1st January, 1991.
- 14. Display total salary of each department with total salary exceeding 35000 and sort the list by total salary.
- 15. List out department names in which more than two employees.
- 16. Display Minimum salary of Rajkot City.
- 17. Display City wise total employees count.
- 18. List all departments with minimum salaries.
- 19. Give Total salaries of each city without displaying the respective city name.
- 20. Find department wise Minimum, Maximum & Total Salaries.



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Lab-9 SET Operators

Create below two tables with RollNo as Int & Name as varchar (50) & insert records as given below.

| Computer | |
|----------|--------|
| RollNo | Name |
| 101 | Ajay |
| 109 | Haresh |
| 115 | Manish |

| Electrical | |
|------------|--------|
| RollNo | Name |
| 105 | Ajay |
| 107 | Mahesh |
| 115 | Manish |

- 1. Display name of students who is either in Computer or in Electrical.
- 2. Display name of students who is either in Computer or in Electrical including duplicate data.
- 3. Display name of students who is in both Computer and Electrical.
- 4. Display name of students who are in Computer but not in Electrical.
- 5. Display name of students who are in Electrical but not in Computer.
- 6. Display all the details of students who is either in Computer or in Electrical.
- 7. Display all the details of students who is in both Computer and Electrical.

Select Into

• Create table Cricket with Name varchar (50), City varchar (50) & Age Int columns & insert records as given below.

| Cricket | | |
|------------------|-----------|----|
| | | |
| Sachin Tendulkar | Mumbai | 30 |
| Rahul Dravid | Bombay | 35 |
| M. S. Dhoni | Jharkhand | 31 |
| Suresh Raina | Gujarat | 30 |

- 1. Create table World cup from cricket with all the columns.
- 2. Create table T20 from cricket with first two columns with no data.
- 3. Create table IPL From Cricket with No Data
- 4. Insert the Data into IPL from Cricket Whose Second Character Should Be 'A' And String Should Have At least 7 Characters in Cricket Name Field.
- 5. Delete All the Rows From IPL.
- 6. Delete the Detail of Cricketer Whose City is Jharkhand.
- 7. Rename the Table IPL to IPL2018.
- 8. Destroy table T20 with All the Data.

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Lab-10 Joins

- Create below tables with given datatype & insert records as given below.
 - Student (Rno int, Name varchar (50), Branch varchar (50))
 - Result (RNo int, SPI Decimal (4,2))
 - o Employee (EmployeeNo varchar (50), Name varchar (50), ManagerNo varchar (50))

| Student | | | | |
|---------|--------|--------|--|--|
| Rno | name | branch | | |
| 101 | Raju | CE | | |
| 102 | Amit | CE | | |
| 103 | Sanjay | ME | | |
| 104 | Neha | EC | | |
| 105 | Meera | EE | | |
| 106 | Mahesh | ME | | |

| Result | | |
|---------|-----|--|
| Rno | SPI | |
| 101 | 8.8 | |
| 102 | 9.2 | |
| 103 | 7.6 | |
| 104 8.2 | | |
| 105 | 7.0 | |
| 107 | 8.9 | |

| Employee | | |
|------------|--------|-----------|
| EmployeeNo | Name | ManagerNo |
| E01 | Tarun | NULL |
| E02 | Rohan | E02 |
| E03 | Priya | E01 |
| E04 | Milan | E03 |
| E05 | Jay | E01 |
| E06 | Anjana | E04 |

- 1. Combine information from student and result table using cross join or Cartesian product.
- 2. Display Rno, Name, Branch and SPI of CE branch's student only.
- 3. Display Rno, Name, Branch and SPI of other than EC branch's student only.
- 4. Display average result of each branch.
- 5. Display average result of each branch and sort them in ascending order by SPI.
- 6. Display average result of CE and ME branch.
- 7. Perform the left outer join on Student and Result tables.
- 8. Perform the right outer join on Student and Result tables.
- 9. Perform the full outer join on Student and Result tables.
- 10. Retrieve the names of employee along with their manager's name from the Employee table.

| Village | | |
|----------------------------|--------------|-------------------------|
| VillageID (Primary Key) | Village Name | CityID (Foreign Key) |
| 101 | Raiya | 1 |
| 102 | Madhapar | 1 |
| 103 | Dodka | 3 |
| 104 | Falla | 4 |
| 105 | Bhesan | 5 |
| 106 | Dhoraji | 5 |

- Create table as per following data & insert records as given below.
 - City (CityID int, CityName varchar (50), Pincode varchar (6), Remarks varchar (250))
 - o Village (VillageID int, VillageName varchar (50), CityID int)

| City | | | |
|-------------------------|---------------------------|---------|-----------|
| CityID (Primary Key) | City Name (Unique Key) | Pincode | Remakrs |
| 1 | Rajkot | 360005 | Good |
| 2 | Surat | 335009 | Very Good |
| 3 | Baroda | 390001 | Awesome |
| 4 | Jamnagar | 361003 | Smart |
| 5 | Junagadh | 362229 | Historic |

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- 1. Display all the villages of Rajkot city.
- 2. Display city along with their villages & pin code.
- 3. Display the city having more than one village.
- 4. Display the city having no village.
- 5. Count the total number of villages in each city.
- 6. Count the number of cities having more than one village.

Lab-11 Stored Procedures

- Create table as per following data.
 - O Student (RNo int, Name varchar (50), Branch varchar (50))
 - Result (RNo int, SPI Decimal (4,2))

| Result | | | |
|--------|-----|--|--|
| Rno | SPI | | |
| 101 | 8.8 | | |
| 102 | 9.2 | | |
| 103 | 7.6 | | |
| 104 | 8.2 | | |
| 105 | 7.0 | | |
| 107 | 8.9 | | |

| Student | | | | |
|---------|--------|--------|--|--|
| Rno | Name | Branch | | |
| 101 | Raju | CE | | |
| 102 | Amit | CE | | |
| 103 | Sanjay | ME | | |
| 104 | Neha | EC | | |
| 105 | Meera | EE | | |
| 106 | Mahesh | ME | | |

- 1. Create a stored procedure to display all the records. (Rno, Name, Branch, SPI)
- 2. Create a stored procedure to get a roll number from user and display all the details of it.
- 3. Create a stored procedure to insert a record in student table. (107, Raj, EE)
- 4. Create a stored procedure to update Branch of roll number 105 to EC in student table.
- 5. Create a stored procedure to delete a record in student table whose roll number is 103.

Lab-12 | Views (First create a view then display all views)

Create table Student with RNo int, Name varchar (50), Branch varchar (50), SPI Decimal (4,2) &
 Bklog Int & insert records as given below.

| Student | | | | |
|---------|--------|----|------|---|
| | | | | |
| 101 | Raju | CE | 8.80 | 0 |
| 102 | Amit | CE | 2.20 | 3 |
| 103 | Sanjay | ME | 1.50 | 6 |
| 104 | Neha | EC | 7.65 | 1 |



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| 105 | Meera | EE | 5.52 | 2 |
|-----|--------|----|------|---|
| 106 | Mahesh | EC | 4.50 | 3 |

- 1. Create a view Personal with all columns.
- 2. Create a view Student Details having columns Name, Branch & SPI.
- 3. Create a view Academic having columns RNo, Name, Branch.
- 4. Create a view Student_Data having all columns but students whose bklog more than 2.
- 5. Create a view Student_Pattern having RNo, Name & Branch columns in which Name consists of four letters.
- 6. Insert a new record to Academic view. (107, Meet, ME)
- 7. Update the branch of Amit from CE to ME in Student Details view.
- 8. Delete a student whose roll number is 104 from Academic view.
- 9. Create a view that displays information of all students whose spi is above 9.5.
- 10. Create a view that displays 0 backlog students.

Lab-13 User Defined Functions (UDF)

- 1. Write a function to print number from 1 to 10. (Using while loop)
- 2. Write a function to check where given number is ODD or EVEN.
- 3. Write a function to print ODD numbers between 1 and 10.
- 4. Write a function to print Sum of numbers from 1 to 50.
- 5. Write a function to print Sum of even numbers between 1 to 20.
- 6. Write a function to check weather given number is prime or not.
- 7. Write a function to inserting even numbers into even table & odd numbers into odd table between 1 to 50.

Lab-14 Design below databases at your own with all constraints & proper naming convention. (Any three)

- 1. College_Info
- 2. Hospital_Info
- 3. Online Shopping
- 4. Cricket_Info
- 5. Insurance_Info