**Lab#03 TASKS:**

* 1. Using wildcards, perform the following tasks:
     + Get all Employees having ‘A’ anywhere in their names.
     + Get all Employees having ‘e’ as 2nd last character.
     + Get all Employees having ‘l’ (small L, not i) as 2nd character.
     + Get all Employees having ‘l’ as 2nd character and ‘n’ as 4th character.
  2. Create a new user using SQL command Line and grant privileges. The user should be named after your roll number with lab03 as prefix **e.g: k181196\_Lab03.**
  3. Create a table Employees with attributes(columns) named **Employee\_id, Full\_Name, Salary, Department\_id, Start\_Date, End\_Date, Married, Phone\_No.**
  4. Create another table Departments with attributes(columns) named **Department\_id, Department\_name, Department\_code, Date\_Founded.**
  5. Make sure the department names are **unique** and **check** if the **date\_founded** is greater than 2000.
  6. Make sure that you set the IDs in each table to primary keys.
  7. Make use of alter command to add foreign key **constraint** and pass reference of departments to the employees table using **has-belongs to** concept.
  8. Insert 5 rows of data into both tables.
  9. Add Column **Speciality** in Departments table and set its **default** value to **None.**
  10. Create a table named **Jobs** with attributes being the same as the table from **HR**.
  11. Modify the **Job\_id** to be of **Integer** Type and make it the **primary key**.
  12. Write a SQL statement to add **Employee\_id** column in jobs table as foreign key referencing to the primary key **Employee\_id** of **Employees** table.
  13. Insert 3 rows of data into jobs table.
  14. Drop column **speciality** from Departments.
  15. Truncate the **jobs** table**.**
  16. Insert 4 new rows into jobs table.
  17. ALTER table **EMPLOYEE** and apply the constraint CHECK on **Full\_Name** attribute such that it should always be capitalized.
  18. Change table **Employee** and make sure that **Phone\_No** should be unique, and never empty.
  19. Write a SQL statement to insert one row into the table **Employees**.
  20. Write a SQL statement to increase the salary of an employee by 200% if the existing salary is less than 1000.
  21. Change column name **Phone\_No** to **Phone\_Number**, and change jobs table to be **job\_details**, make sure to change foreign keys where referenced.
  22. Write a SQL statement to add a primary key for a combination of columns **employee\_id** and **job\_id** in employees table, give the reason why this command is showing error.
  23. Delete a row from jobs\_details table where starting year is below 1990(add a record first if not existent).
  24. **Drop** the job\_details table.
  25. Write a SQL statement to add an index named **indx\_employee\_id** on **employee\_id** column in the table employees, **indx\_department\_id** on **department\_id** column in the table departments.
  26. Create a table named Suppliers with the following fields:Supplier\_ID (Primary Key)

Supplier\_Name (NOT NULL, Unique),Contact\_Name, Phone\_Number (NOT NULL), Email (Unique).

you can later use the Supplier\_ID as a foreign key in the Products table.

* 1. Create a table named `Products` with the following fields: `Product\_ID` (Primary Key), `Product\_Name` (NOT NULL, Unique), `Supplier\_ID` (Foreign Key referencing the `Suppliers` table), and `Category\_ID`.
  2. Add 5 Records in Both Tables