

* Example - to find a record from database table
using stored Procedure with the help of out
Parameters :-

Enter EmpId	<input type="text"/>	<div>find</div>
ENAME is	<input type="text"/>	
Designation is	<input type="text"/>	
DOJ is	<input type="text"/>	
Salary is	<input type="text"/>	
DeptNo is	<input type="text"/>	

→ Go to sql server Write the following code
to create a stored Procedure to find the record.

* Create Procedure find Emp
@PEmpId int, @PENAME varchar(20) out, @Pdesignation
varchar(20) out, @PDOJ date out, @PSalary money
out, @PdeptNo int out

AS

Begin

select @PENAME = ENAME, @Pdesignation = Designation,
@PDOJ = DOJ, @PSalary = salary, @PdeptNO = deptNo
from Emp details where @PEmpId = @PEmpId
END

→ Goto Visual Studio Write the following code

using System.Data.SqlClient;

string sqlcon string = "Server = ; User Id = ;"
SqlConnection con; SqlCommand cmd; SqlParameter P1;

Private void btnFind_Click {

{

con = new SqlConnection(sqlcon string);

cmd = new SqlCommand("Find Emp", con);

cmd.CommandType = CommandType.StoredProcedure;

P1 = new SqlParameter("@PEmpId", SqlDbType.Int);

P1.Value = txtEmpId.Text;

cmd.Parameters.Add(P1);

P1 = new SqlParameter("@PEName", SqlDbType.

P1.Direction = ParameterDirection.Output;

cmd.Parameters.Add(P1);

P1 = new SqlParameter("@PDesignation", SqlDbType.

VarChar, 20);

P1.Direction = ParameterDirection.Output;

cmd.Parameters.Add(P1);

P1 = new SqlParameter("@P DOJ", SqlDbType.

P1.Direction = ParameterDirection.Output; date);

cmd.Parameters.Add(P1);


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P1 = NEW Sql parameter ("@Psalary", SqlDbType.Money);
P1.Direction = parameter direction.output;
Cmd.parameters.Add (P1);

P1 = NEW Sql parameter ("@PdeptNo", SqlDbType.Int);
P1.Direction = Parameters direction.output;
Cmd.parameters.Add (P1);

Con.open ();
Cmd.Execute Non Query ();
Con.close ();

txt EName.Text = Cmd.parameters [1].Value.ToString ();
txt designation.Text = Cmd.parameters [2].Value.ToString ();
txt DOJ.Text = Cmd.parameters [3].Value.ToString ();
txt Salary.Text = Cmd.parameters [4].Value.ToString ();
txt DeptNo.Text = Cmd.parameters [5].Value.ToString ();
3

```

* Example to Perform all operations using a single stored procedure:-

Enter EmpId	<input type="text"/>	<input type="button" value="find"/>
Enter EName	<input type="text"/>	
Enter designation	<input type="text"/>	
Enter DOJ	<input type="text"/>	
Enter Salary	<input type="text"/>	
Enter DeptNo	<input type="text"/>	
<input type="button" value="Insert"/>	<input type="button" value="update"/>	
<input type="button" value="delete"/>	<input type="button" value="clear"/>	

* Example to create user registrations and login forms:

Table Name → users

User ID → Varchar(20) → PK

Password → Varchar(20)

First Name → Varchar(20)

Last Name → Varchar(20)

GENDER → Varchar(10)

DOB → Date

Email ID → Varchar(20)

Contact Number → long

City → Varchar(20)

State → Varchar(20)

Country → Varchar(20)

PIN Code → Int

Hint Questions → Varchar(50)

Hint Answers → Varchar(50)

NEW user Registration

Enter user Name

Check Availability

Enter password

Retype password

Enter first Name

Enter Last Name

Select

~~Enter~~ GENDER

☐ Male ☐ Female

Select DOB

Enter Email ID

Enter Contact Number

Enter city

Enter state

Enter Country

Enter pin code

Enter Hint Questions

Enter Hint Answers

Select

Clear

②

User login

Enter userName

Enter password

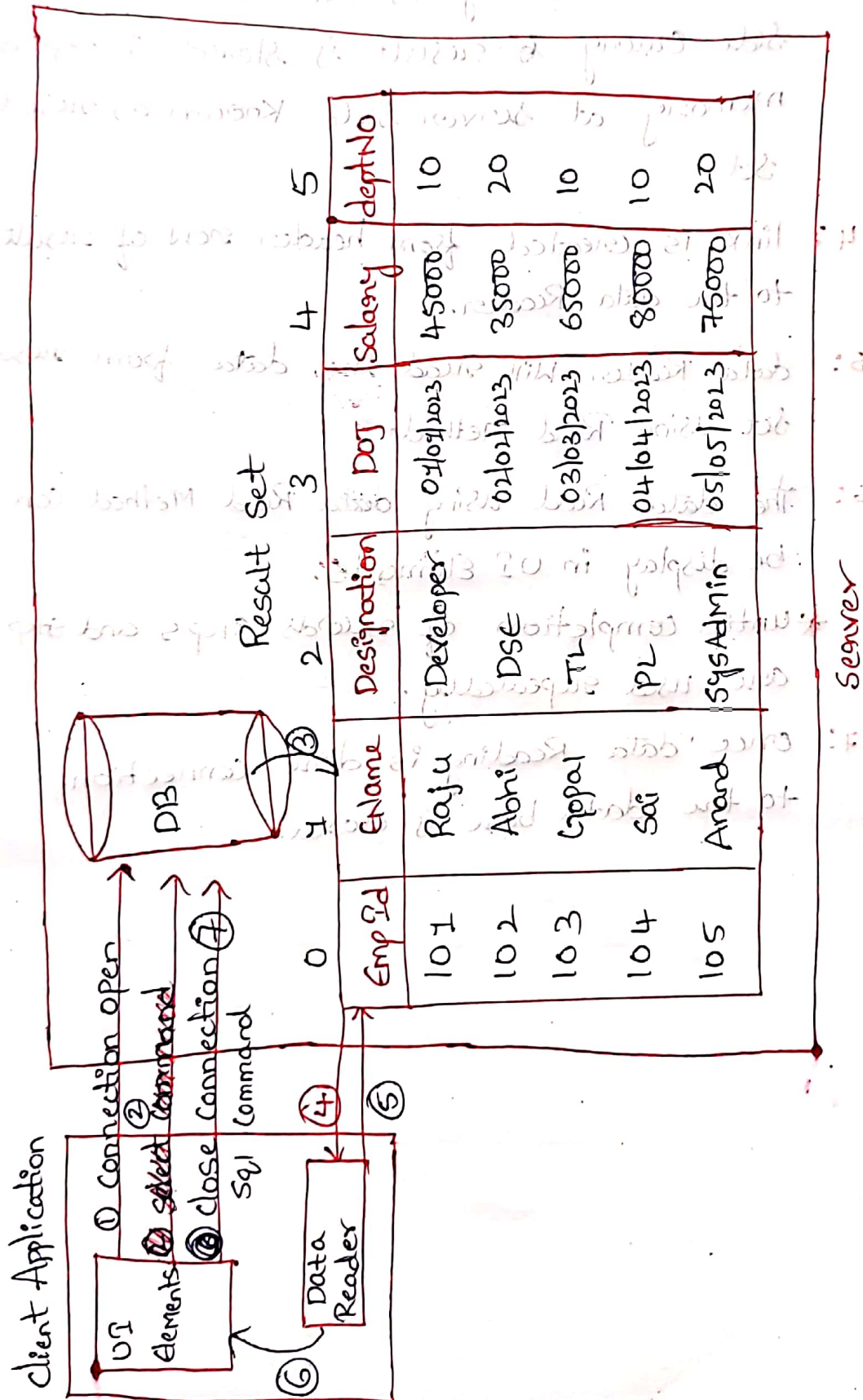
Login

Clear

Working With Data Reader

* Data Reader is responsible to read the data from the database. We use select query. When select query is executed at database side a result set will be created at database side. This result set will be available until the client application disconnects from the server. And data reader will read the data from this result set. And data reader will never read the data from the database table.

And data Reader. can also be used to perform the Insert, update, delete operations on the database table. data Reader can't work independently rather it will use command object to send the request to data base.



Step 1: Establish connection from client Application to Server

Step 2: Client Will send select query with Command object

Step 3: once select query is executed at database side query result is stored in separate memory at server side known as result set.

Step 4: link is created from header row of result to the data Reader.

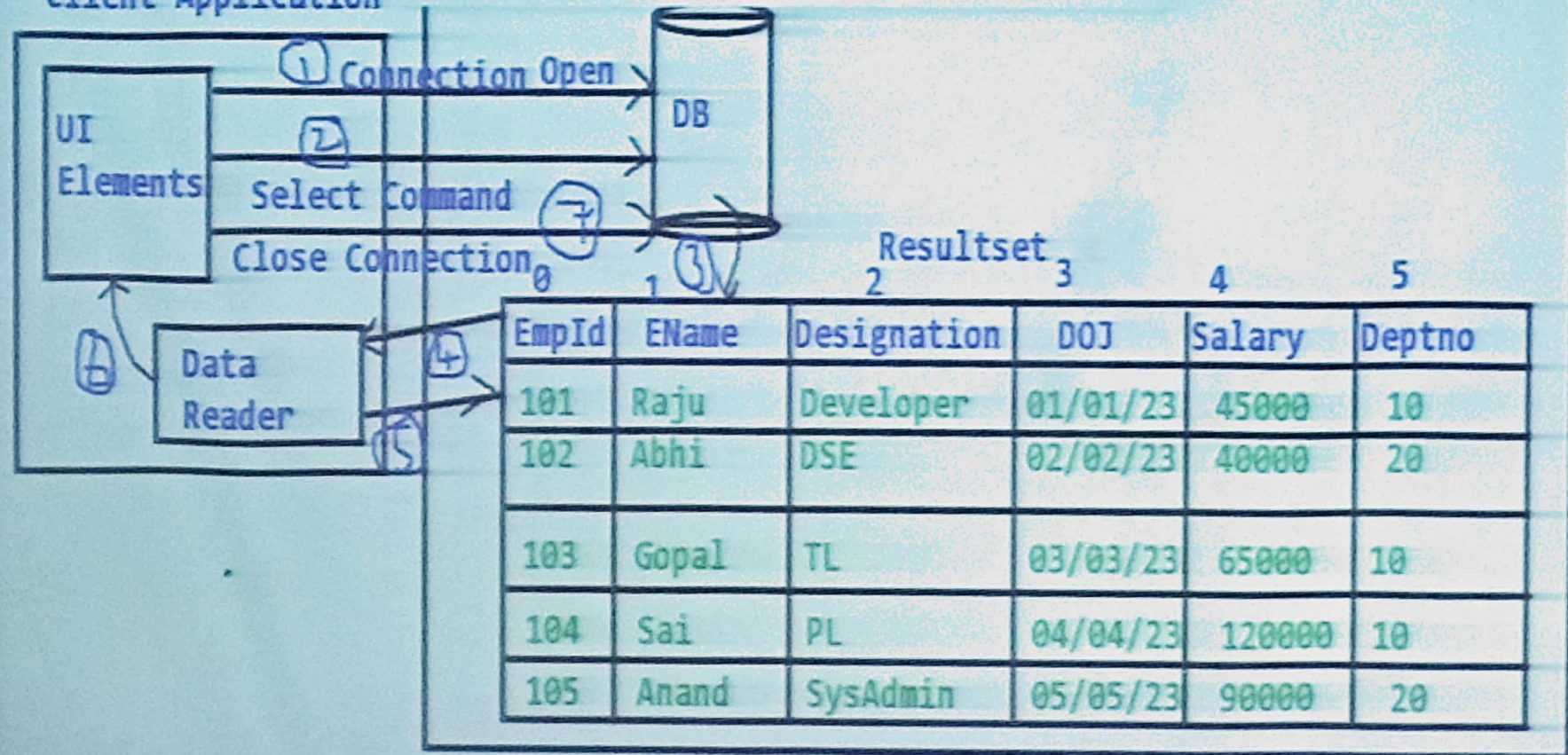
Step 5: data Reader will read the data from result set using Read Method.

Step 6: The data read using data Read Method can be display in UI Elements.

* until completion of records step 5 and step 6 are used repeatedly.

Step 7: once data Reading is done connection to the data base is closed.

Client Application



Server

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