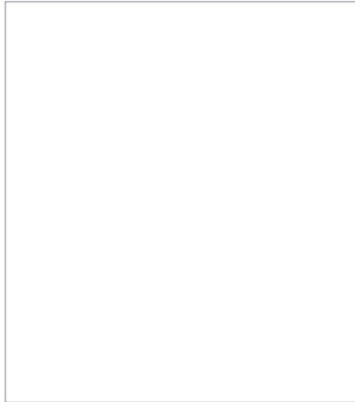


## Que



- DataReader
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## DataReader

```
//Read all data
1 reference
private void Button_Click_1(object sender, RoutedEventArgs e)
{
    SqlConnection cn = new SqlConnection();
    cn.ConnectionString = @"Data Source=(localdb)\MsSqlLocalDb;Initial Catalog=JKDec20;Integrated Security=true";

    cn.Open();

    SqlCommand cmd = new SqlCommand();
    cmd.Connection = cn;
    cmd.CommandType = CommandType.Text;
    cmd.CommandText = "select * from Employees";
    SqlDataReader dr = cmd.ExecuteReader();

    while (dr.Read())
    {
        // dr.GetString(1)
        //dr.GetInt32(0)

        lstNames.Items.Add(dr["Name"]);
        //lstNames.Items.Add(dr[1]);
    }
    dr.Close();

    cn.Close();
}
//read next
```

## NextResult:

```

//read next
1 reference
private void Button_Click(object sender, RoutedEventArgs e)
{
    SqlConnection cn = new SqlConnection();
    cn.ConnectionString = @"Data Source=(localdb)\MsSqlLocalDb;Initial Catalog=JKDec20;Integrated Security=true";

    cn.Open();
    SqlCommand cmd = new SqlCommand();
    cmd.Connection = cn;
    cmd.CommandType = CommandType.Text;
    cmd.CommandText = "select * from Employees;select * from Departments";

    lstNames.Items.Add("EMPLOYEES");
    SqlDataReader dr = cmd.ExecuteReader();
    while (dr.Read())
    {
        lstNames.Items.Add(dr["Name"]);
    }

    lstNames.Items.Add("DEPARTMENTS");
    dr.NextResult();
    while (dr.Read())
    {
        lstNames.Items.Add(dr["DeptName"]);
    }

    dr.Close();
    cn.Close();
}

```

## MARS : While ke under While

```

1 reference
private void Button_Click_2(object sender, RoutedEventArgs e)
{
    SqlConnection cn = new SqlConnection();
    cn.ConnectionString = @"Data Source=(localdb)\MsSqlLocalDb;Initial Catalog=JKDec20;Integrated Security=true;MultipleActiveResultSets=true";
    cn.Open();

    SqlCommand cmdDepts = new SqlCommand();
    cmdDepts.Connection = cn;
    cmdDepts.CommandType = CommandType.Text;
    cmdDepts.CommandText = "Select * from Departments";

    SqlCommand cmdEmps = new SqlCommand();
    cmdEmps.Connection = cn;
    cmdEmps.CommandType = CommandType.Text;

    SqlDataReader drDepts = cmdDepts.ExecuteReader();
    while (drDepts.Read())
    {
        lstNames.Items.Add(drDepts["DeptName"]);

        cmdEmps.CommandText = "Select * from Employees where DeptNo = " + drDepts["DeptNo"];
        SqlDataReader drEmps = cmdEmps.ExecuteReader();
        while (drEmps.Read())
        {
            lstNames.Items.Add(" " + drEmps["Name"]);
        }
        drEmps.Close();
    }
    drDepts.Close();
    cn.Close();
}

```

## Data Reader from function:

```
1 reference
private void Button_Click_3(object sender, RoutedEventArgs e)
{
    SqlDataReader dr = GetDataReader();
    while (dr.Read())
    {
        lstNames.Items.Add(dr["Name"]);
    }
    dr.Close();
    //MessageBox.Show(cn.State.ToString());
}

1 reference
private SqlDataReader GetDataReader()
{
    SqlConnection cn = new SqlConnection();
    cn.ConnectionString = @"Data Source=(localdb)\MsSqlLocalDb;Initial Catalog=JKDec20;Integrated Security=true";
    cn.Open();
    SqlCommand cmd = new SqlCommand();
    cmd.Connection = cn;
    cmd.CommandType = CommandType.Text;
    cmd.CommandText = "Select * from Employees";
    SqlDataReader dr = cmd.ExecuteReader(CommandBehavior.CloseConnection);
    //SqlDataReader dr = cmd.ExecuteReader();
    //cn.Close();
    return dr;
}
```