

Industry Project / IBM Project Report On Software Developer at Sarjen System

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**Submitted to
Faculty of Engineering and Technology
Institute of Computer Technology
Ganpat University**



**Ganpat
University**

॥ विद्या समाजोत्कर्षः ॥

**Institute of
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Year - 2024



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Technology

CERTIFICATE

This is to certify that the Industry work entitled "**Software Developer**" by Mahendrasinh Dod(Enrolment No.21162102002)of Ganpat University, towards the partial fulfillment of requirements of the degree of Bachelor of Technology – Computer Science and Engineering, carried out by him in the CSE(CBA) Department. The results/findings contained in this Project have not been submitted in part or full to any other University / Institute for award of any other Degree/Diploma.

Name & Signature of Internal Guide

Name & Signature of Head

Place: ICT - GUNI

Date:

ACKNOWLEDGEMENT

Industry Internship project is a golden opportunity for learning and self-development. I consider myself very lucky and honored to have so many wonderful people lead me through in completion of this project. First and foremost, I would like to thank Dr. Rohit Patel, Principal, ICT, and Prof. Dharmesh Darji, Head, ICT who gave us an opportunity to undertake this project. My grateful thanks to Prof.Neha Rajput for their guidance in My work as “Software Developer”, who despite being extraordinarily busy with academics, took time out to hear, guide and keep us on the correct path. We do not know where would have been without his/her help. CSE department monitored our progress and arranged all facilities to make life easier. We choose this moment to acknowledge their contribution gratefully.

Mahendrasinh Dod (Enrollment No:21162102002)

ABSTRACT

This internship report encapsulates the comprehensive experience gained during a tenure as a software developer intern. The internship was undertaken with the objective of gaining practical exposure to software development methodologies, tools, and techniques prevalent in the industry. The report provides insights into the challenges encountered, and lessons learned during the internship period. Furthermore, the report discusses the various technologies and tools employed throughout the internship, such as programming languages, frameworks, version control systems, and project management tools. The report encapsulates a transformative journey of professional growth and learning in the field of software development.

INDEX

Title	Page No
CHAPTER 1: INTRODUCTION	01-02
CHAPTER 2: SOFTWARE AND HARDWARE REQUIREMENTS	03-04
CHAPTER 3: WEEK-1 To 4 PROGRESS	05-19
CHAPTER 4: WEEK-5 To 8 PROGRESS	20-34
CHAPTER 5: WEEK-9 To 12 PROGRESS	35-37
CHAPTER 6: WEEK-13 To 16 PROGRESS	38-49
CHAPTER 7: References	50-51

CHAPTER: 1 INTRODUCTION

CHAPTER 1 INTRODUCTION

The field of software development is a dynamic and ever-evolving landscape, where innovation and creativity intersect to drive technological advancement. As a software developer intern, my journey into this realm has been both exhilarating and enlightening.

Throughout this report, I aim to provide a comprehensive overview of my internship experience, starting with an exploration of the organization's background and the context in which my work unfolded. I highlight the methodologies employed, the technologies utilized, and the outcomes achieved.

CHAPTER: 2 SOFTWARE AND HARDWARE REQUIREMENTS

CHAPTER 2 SOFTWARE AND HARDWARE REQUIREMENTS

Minimum Hardware Requirements

Processor	2.0 GHz
RAM	4GB
HDD	40GB

Table 3.1 Minimum Hardware Requirements

Minimum Software Requirements

Operating System	Any operating system which can support an internet browser.
Programming language	Asp .net core mvc
Other tools & tech	Visual Studio 2022, MS Sql Server

Table 3.2 Minimum Software Requirements

CHAPTER: 3 WEEK-1 To 4 PROGRESS

CHAPTER 3 WEEK-1 To 4 PROGRESS



Week-1 Orientation and Onboarding:

- Company Profile, Organization & its operation, Customer services, Company Policy Briefing, Process & Systems, Motto of company and common objectives, Dos & Don't of organization
- Meet with your supervisor or mentor to discuss expectations, goals, and projects for the internship.
- Attend orientation sessions to get acquainted with the company culture, policies, and procedures.
- Begin familiarizing myself with the company's codebase, development processes, and tools.
- Induction Program.

CHAPTER: 3 WEEK-1 To 4 PROGRESS(Week2)

CHAPTER 3 WEEK-1 To 4 PROGRESS

Week-2 Training and skill development:

- Induction program
- Session on Soft Skills and Values (Accountability/Ownership/Process Significance)-by Chirag P
- IT Security and general awareness – by Pritesh/Saddam
- Explain the Value addition towards organization by specific role
- Session on ORM (Online Reputation Management)- by kirangi Shah

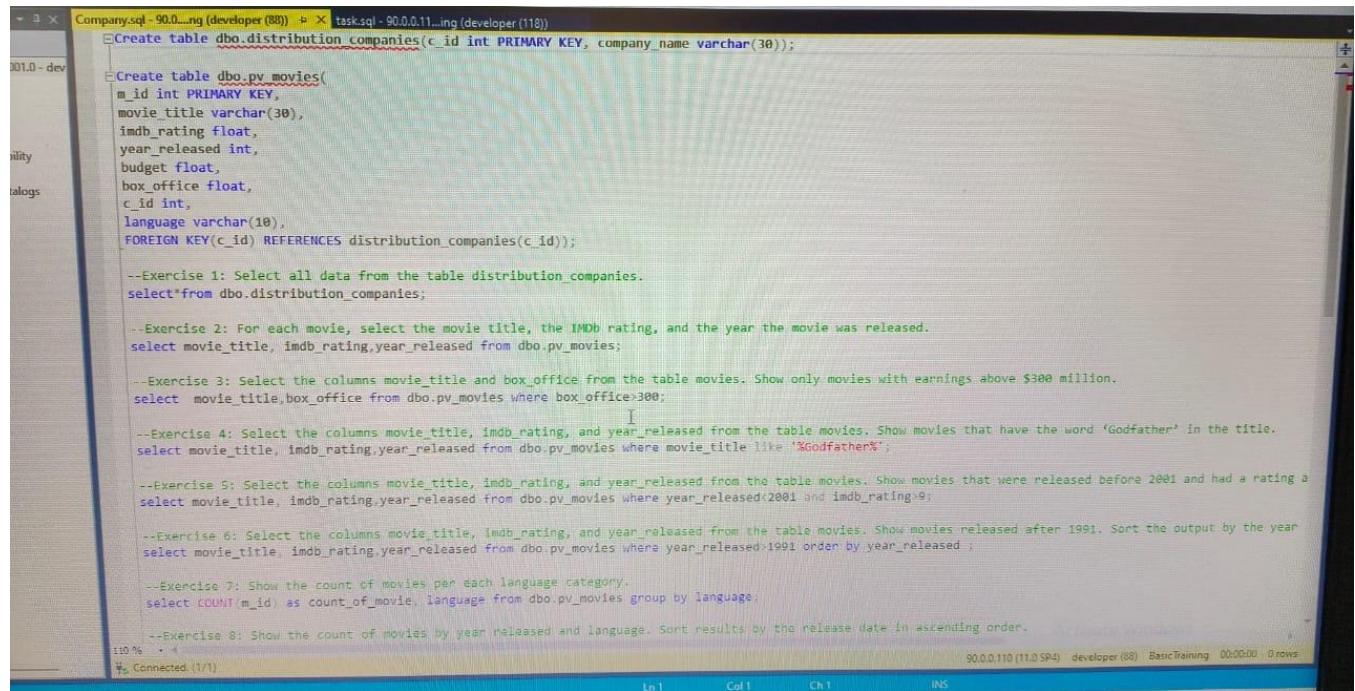
CHAPTER: 3 WEEK-1 To 4 PROGRESS

Week-3 Technical Training and Task:

- Technical training (HTML/CSS, javascript, jquery) by Sachin Parejiya.
- Technical training (Database) by Aditya Choubey.
 - Database Concepts/Query writing
 - Complex Database Operations
 - Database management
 - Data Migration-Data management
 - Database Performance monitoring
 - Performance monitoring & Optimization
- Ip management and process (why it important) by Aditya choubey.
- Training on Process and Quality (ISO/SDLC and CSV)
- Simple Sql Query Tasks assigned by mentor.
- Daily Training assessment and assignment

Assignment:

- Database Exercise basic Query Writing.



The screenshot shows a SQL editor interface with two tabs: 'Company.sql - 90.0....ng (developer (88))' and 'task.sql - 90.0.0.11.ng (developer (118))'. The 'task.sql' tab contains the following SQL code:

```
CREATE table dbo.distribution_companies(c_id int PRIMARY KEY, company_name varchar(30));

CREATE table dbo.pv_movies(
    m_id int PRIMARY KEY,
    movie_title varchar(30),
    imdb_rating float,
    year_released int,
    budget float,
    box_office float,
    c_id int,
    language varchar(10),
    FOREIGN KEY(c_id) REFERENCES distribution_companies(c_id));

--Exercise 1: Select all data from the table distribution_companies.
select*from dbo.distribution_companies;

--Exercise 2: For each movie, select the movie title, the IMDB rating, and the year the movie was released.
select movie_title, imdb_rating,year_released from dbo.pv_movies;

--Exercise 3: Select the columns movie_title and box_office from the table movies. Show only movies with earnings above $300 million.
select movie_title,box_office from dbo.pv_movies where box_office>300;

--Exercise 4: Select the columns movie_title, imdb_rating, and year_released from the table movies. Show movies that have the word 'Godfather' in the title.
select movie_title, imdb_rating,year_released from dbo.pv_movies where movie_title like '%Godfather%';

--Exercise 5: Select the columns movie_title, imdb_rating, and year_released from the table movies. Show movies that were released before 2001 and had a rating a
select movie_title, imdb_rating,year_released from dbo.pv_movies where year_released<2001 and imdb_rating>9;

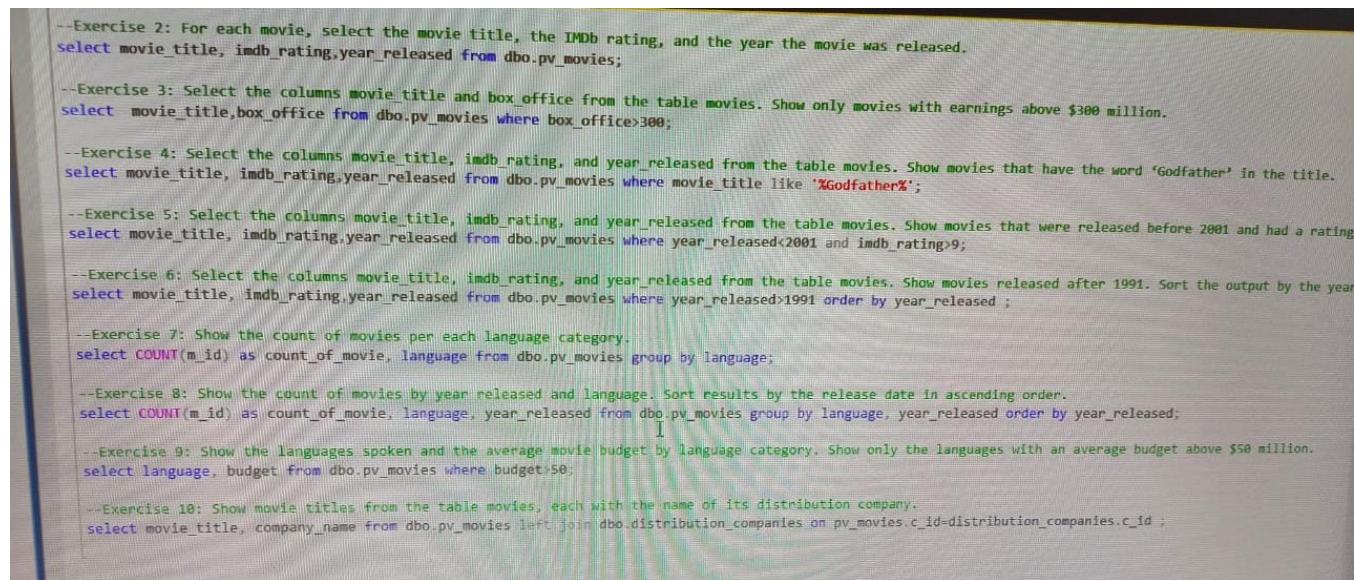
--Exercise 6: Select the columns movie_title, imbd_rating, and year_released from the table movies. Show movies released after 1991. Sort the output by the year
select movie_title, imbd_rating,year_released from dbo.pv_movies where year_released>1991 order by year_released;

--Exercise 7: Show the count of movies per each language category.
select COUNT(m_id) as count_of_movie, language from dbo.pv_movies group by language;

--Exercise 8: Show the count of movies by year released and language. Sort results by the release date in ascending order.
select COUNT(m_id) as count_of_movie, language, year_released from dbo.pv_movies group by language, year_released order by year_released;

--Exercise 9: Show the languages spoken and the average movie budget by language category. Show only the languages with an average budget above $50 million.
select language, budget from dbo.pv_movies where budget>50;

--Exercise 10: Show movie titles from the table movies, each with the name of its distribution company.
select movie_title, company_name from dbo.pv_movies left join dbo.distribution_companies on pv_movies.c_id=distribution_companies.c_id ;
```



The screenshot shows a SQL editor interface with the same tabs as the previous screenshot. The 'task.sql' tab contains the following SQL code, which is identical to the one in the previous screenshot but lacks the schema definitions at the top:

```
--Exercise 2: For each movie, select the movie title, the IMDB rating, and the year the movie was released.
select movie_title, imdb_rating,year_released from dbo.pv_movies;

--Exercise 3: Select the columns movie_title and box_office from the table movies. Show only movies with earnings above $300 million.
select movie_title,box_office from dbo.pv_movies where box_office>300;

--Exercise 4: Select the columns movie_title, imdb_rating, and year_released from the table movies. Show movies that have the word 'Godfather' in the title.
select movie_title, imdb_rating,year_released from dbo.pv_movies where movie_title like '%Godfather%';

--Exercise 5: Select the columns movie_title, imdb_rating, and year_released from the table movies. Show movies that were released before 2001 and had a rating a
select movie_title, imdb_rating,year_released from dbo.pv_movies where year_released<2001 and imdb_rating>9;

--Exercise 6: Select the columns movie_title, imbd_rating, and year_released from the table movies. Show movies released after 1991. Sort the output by the year
select movie_title, imbd_rating,year_released from dbo.pv_movies where year_released>1991 order by year_released;

--Exercise 7: Show the count of movies per each language category.
select COUNT(m_id) as count_of_movie, language from dbo.pv_movies group by language;

--Exercise 8: Show the count of movies by year released and language. Sort results by the release date in ascending order.
select COUNT(m_id) as count_of_movie, language, year_released from dbo.pv_movies group by language, year_released order by year_released;

--Exercise 9: Show the languages spoken and the average movie budget by language category. Show only the languages with an average budget above $50 million.
select language, budget from dbo.pv_movies where budget>50;

--Exercise 10: Show movie titles from the table movies, each with the name of its distribution company.
select movie_title, company_name from dbo.pv_movies left join dbo.distribution_companies on pv_movies.c_id=distribution_companies.c_id ;
```

createproductsql -> tasksql -> tasksql -> 90.0.11...ing (developer (118))

```

use BasicTraining
create table dbo.Product2(Product_id int primary key, Product_Name varchar(30), Product_Price int, Product_Quantity int, Product_Status varchar(40));
create table dbo.Customer2(Customer_id int primary key, Customer_Name varchar(30), Customer_Age int, Customer_Address varchar(50));
create table dbo.Sales(Sale_id varchar(10) primary key, Product_id int, Customer_id int, Amount int, Product_Quantity int, SalesDate date, FOREIGN KEY(Product_id) REFERENCES Product2(Product_id));

Select Product_id, Sum(Amount) as Amount from dbo.Sales GROUP BY Product_id;
select Sales.Product_id, SUM(Sales.Amount) as Amount, Product2.Product_Name from dbo.Sales left join dbo.product2 on Sales.Product_id=Product2.Product_id group by Product_id;

Select Customer_id, Sum(Amount) as Amount from dbo.Sales group by Customer_id;
select Sales.Customer_id, SUM(Sales.Amount) as Amount, Customer2.Customer_Name from dbo.Sales left join dbo.Customer2 on Sales.Customer_id=Customer2.Customer_id group by Customer_id;

Select Sum(Amount) as Amount from dbo.Sales;

Select count(Product_id) as TotalAvailable from dbo.Product2 where Product_Status='Available';

Select Product_id, SalesDate from dbo.Sales where SalesDate between '2024-01-01' and '2024-01-05';

select * from dbo.Product2 where Product_id not in (select Product_id from dbo.Sales);
select * from Product2;
select * from Sales

```

Database Tasksql -> g (developer (197)) > tasksql -> 90.0.11...ing (developer (118))

```

Q1 create two table with constraints and use aggregate functions
--created two tables with constraints
create table PvProduct(iProdId int primary key IDENTITY(1,1) not null, vProdName varchar(30), iProdPrice int, vProdStatus varchar(40));
create table PvCustomer(iCustomerid int primary key IDENTITY(1,1) not null, iProdId int, vCustomerName varchar(30), vCustomerAge int, vCustomerAddress varchar(50));
--insert data in PvProduct
Insert into PvProduct values('pendrive',800,'Available'),
('usb',100,'Available'),
('charger',500,'Available'),
('mouse',900,'Available')
--insert data in PvCustomer
Insert into PvCustomer values(1,'manan',21,'Ahmedabad'),
(2,'nitin',20,'Surat'),
(1,'jigen',19,'Ahmedabad'),
(3,'rahul',25,'Rajkot')
--Aggregate Function and join
select min(iProdPrice) as MinPrice from PvProduct;
select AVG(vCustomerAge) as Avg_CustomerAge from PvCustomer
select SUM(iProdPrice) as Total_Price from PvProduct
select SUM(iProdPrice) as Total_Price from PvProduct inner join PvCustomer on PvProduct.iProdId=PvCustomer.iProdId
select SUM(iProdPrice) as Total_Price from PvProduct left join PvCustomer on PvProduct.iProdId=PvCustomer.iProdId
select SUM(iProdPrice) as Total_Price from PvProduct right join PvCustomer on PvProduct.iProdId=PvCustomer.iProdId
select max(iProdPrice) as MaxPrice from PvProduct
select COUNT(iCustomerid) as Total_Customers from PvCustomer
select COUNT(iProdId) as Total_Products from PvProduct

--Q2 BCNF
--here in this table Functional dependencies are as follows iStudentid->vStudentname, iStudentage and iBranchid->vBranchname
create table BCNFStudent(iStudentid int primary key, vStudentname varchar(40), iStudentage int, iBranchid int, vBranchname varchar(10));
--The table is not in BCNF because neither iStudentid nor iBranchid alone are keys.To convert the given table into BCNF, we decompose it into three tables
create table PvStudents(iStudentid int primary key, vStudentname varchar(40), iStudentage int);
create table PvBranch(iBranchid int primary key, vBranchname varchar(10));
create table PvMapping(iStudentid int, iBranchid int, primary key(iStudentid,iBranchid))

--Q3 create sales table and show Amount yearly, monthly, quarterly
--created Table Sales

```

```

tasksql - 90.0.0.11...ing (developer(118))
11.0.7001.0 - dev
availability
Catalogs

--Q3 create sales table and show Amount yearly, monthly, quarterly
--created table sales
create table PvSales(iSid int primary key IDENTITY(1,1) , iCustomerName varchar(50), iAmount int, iQuantity int, dSalesDate date )
--insert some data
insert into PvSales(iCustomerName,iAmount,iQuantity,dSalesDate) values('mayan',200,1,GETDATE())
insert into PvSales(iCustomerName,iAmount,iQuantity,dSalesDate) values('nitin',500,1,'2024-02-29')
insert into PvSales(iCustomerName,iAmount,iQuantity,dSalesDate) values('sourav',900,1,'2024-03-10')
insert into PvSales(iCustomerName,iAmount,iQuantity,dSalesDate) values('rahul',600,1,'2024-04-30')
insert into PvSales(iCustomerName,iAmount,iQuantity,dSalesDate) values('mayur',700,1,'2024-05-30')
insert into PvSales(iCustomerName,iAmount,iQuantity,dSalesDate) values('om',700,1,'2023-06-30')
insert into PvSales(iCustomerName,iAmount,iQuantity,dSalesDate) values('mahendra',700,1,'2022-09-30')

--get details yearly
select year(dSalesDate) as Yearly, iAmount from PvSales order by year(dSalesDate),iAmount
--get details monthly
select month(dSalesDate) as Monthly, year(dSalesDate) as yearly, iAmount from PvSales order by month(dSalesDate),iAmount
--get details quarterly
select case
when MONTH(dSalesDate) between 1 and 3 then 'Q3' + CONVERT(char(4), YEAR(dSalesDate)-0)
when MONTH(dSalesDate) between 4 and 6 then 'Q4' + CONVERT(char(4), YEAR(dSalesDate)-0)
when MONTH(dSalesDate) between 7 and 9 then 'Q1' + CONVERT(char(4), YEAR(dSalesDate)-1)
when MONTH(dSalesDate) between 10 and 12 then 'Q2' + CONVERT(char(4), YEAR(dSalesDate)-1)
End as Quarterly, YEAR(dSalesDate) as year, iAmount from PvSales order by Quarterly

--Q4 create two table Pv_Employee with 10 records and Pv_EmpDesignation with 5 records find missing value in Pv_Designation and insert missing data with cursor
--created table employee
create table Pv_Employee (iEmpid int primary key IDENTITY(1,1),vEmpname varchar(50),vPhoneno nvarchar(20),vEmail nvarchar(20))
--Inserted 10 records
insert into Pv_Employee(vEmpname,vPhoneno,vEmail) values
('mayan','56459852442','mayur@gmail.com'),
('mayan','48634854545','nayung@gmail.com'),
('nitin','7897854987','nitin@gmail.com'),
('sourav','8948687895','sourav@gmail.com'),
('rahul','9756263563','ranul@gmail.com'),
('anyan','9756263563','anyan@gmail.com')

110 %
W Connected (1/1) 90.0.0.110 (11.0 SP4) developer (197) BasicTraining 00:00:00 0 rows
In1 Col1 Ch1 INS

```

```

Database_Tasksql - 9 (developer(197)) ✘ tasksql - 90.0.0.11...ing (developer(118))
11.0.7001.0 - dev
Availability
Catalogs

--created table employee designation
create table Pv_EmpDesignation (iEmpDid int,vDesignation varchar(30), foreign key(iEmpDid) references Pv_Employee(iEmpid))
--inserted 5 records
insert into Pv_EmpDesignation(iEmpDid,vDesignation) values(1,'Developer')
insert into Pv_EmpDesignation(iEmpDid,vDesignation) values(3,'Devops')
insert into Pv_EmpDesignation(iEmpDid,vDesignation) values(5,'BTE')
insert into Pv_EmpDesignation(iEmpDid,vDesignation) values(4,'HR')
insert into Pv_EmpDesignation(iEmpDid,vDesignation) values(7,'Tester')

--find missing Data in Pv_EmpDesignation
select iEmpid, vEmpname, vPhoneno, vEmail from Pv_Employee where iEmpid Not in (Select iEmpDid from Pv_EmpDesignation)

--insert missing data in Pv_EmpDesignation and designation as 'Default Designation' using Cursor
Declare @empid int
Declare missingdata cursor for select iEmpid from Pv_Employee where iEmpid Not in (Select iEmpDid from Pv_EmpDesignation)
open missingdata
FETCH next FROM missingdata into @empid
while @@FETCH_STATUS=0
begin
    insert into Pv_EmpDesignation (iEmpDid,vDesignation) values(@empid,'Default Designation')
    fetch next from missingdata into @empid
end
close missingdata
Deallocate missingdata
--Show updated data
Select * from Pv_EmpDesignation order by iEmpDid
Select * from Pv_Employee left join Pv_EmpDesignation on Pv_Employee.iEmpid=Pv_EmpDesignation.iEmpDid;

--Q5 create two table than use savepoint and use merge
--create two tables
create table PvProduct2(iProdId int, vCustomerName varchar(30), vCustomerAddress varchar(50))
create table PvCustomer2(iProdId int, vCustomerName varchar(30), vCustomerAddress varchar(50))
--insert data in table
insert into PvProduct2 values(2,'mayan','patan')

--Q5 create two table than use savepoint and use merge
--create two tables
create table PvProduct2(iProdId int, vCustomerName varchar(30), vCustomerAddress varchar(50))
create table PvCustomer2(iProdId int, vCustomerName varchar(30), vCustomerAddress varchar(50))
--insert data in table
insert into PvProduct2 values(2,'mayan','patan')

110 %
W Connected (1/1) 90.0.0.110 (11.0 SP4) developer (197) BasicTraining 00:00:00
In1 Col1 Ch1 INS

```

```
Database Task.sql -> g (developer (197))  task.sql - 90.0.0.11...ing (developer (118))
--create two tables
create table PvProduct2(iProdid int, vCustomerName varchar(30), vCustomerAddress varchar(50))
create table PvCustomer2(iProdid int, vCustomerName varchar(30), vCustomerAddress varchar(50))
--Insert data in table
insert into PvProduct2 values(2,'mayan','patan')
insert into PvProduct2 values(5,'sourav','dwarka')
insert into PvProduct2 values(6,'rahul','sommath')

--Insert data in table with rollback,savepoint,commit
Begin tran
    save transaction s1;
        insert into PvCustomer2 values(1,'Suraj','Ahmedabad')
    rollback transaction s1;
    save transaction s2;
        insert into PvCustomer2 values(2,'gourav','Surat')
    commit

    insert into PvCustomer2 values(3,'Suraj','Ahmedabad')
    insert into PvCustomer2 values(4,'sanket','Rajkot')
--Merge two tables
MERGE PvProduct2 AS Target
    USING PvCustomer2 AS Source
    ON Source.iProdid = Target.iProdid

    -- For Insert
    WHEN NOT MATCHED BY Target THEN
        INSERT (iProdid,vCustomerName, vCustomerAddress)
        VALUES (Source.iProdid,Source.vCustomerName, Source.vCustomerAddress)

    -- For Update
    WHEN MATCHED THEN UPDATE SET
        Target.vCustomerName = Source.vCustomerName,
        Target.vCustomerAddress = Source.vCustomerAddress
```

```
Database Task.sql -> g (developer (197))  task.sql - 90.0.0.11...ing (developer (118))
--create two tables
create table PvProduct2(iProdid int, vCustomerName varchar(30), vCustomerAddress varchar(50))
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    rollback transaction s1;
    save transaction s2;
        insert into PvCustomer2 values(2,'gourav','Surat')
    commit

    insert into PvCustomer2 values(3,'Suraj','Ahmedabad')
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--Merge two tables
MERGE PvProduct2 AS Target
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    ON Source.iProdid = Target.iProdid

    -- For Insert
    WHEN NOT MATCHED BY Target THEN
        INSERT (iProdid,vCustomerName, vCustomerAddress)
        VALUES (Source.iProdid,Source.vCustomerName, Source.vCustomerAddress)

    -- For Update
    WHEN MATCHED THEN UPDATE SET
        Target.vCustomerName = Source.vCustomerName,
        Target.vCustomerAddress = Source.vCustomerAddress
```

CHAPTER: 3 WEEK-4 PROGRESS

CHAPTER 3 WEEK-1 To 4 PROGRESS

Week-4 Technical Training and Tasks:

- Work on small task to practice crud operation in asp .net core using ms sql database.

The screenshot shows a Microsoft Visual Studio interface. The code editor displays a C# file named 'select.aspx.cs' containing code for a web page. The code uses System.Data.SqlClient to connect to a SQL Server database and execute a select query. The Solution Explorer on the right shows a project named 'SQLtest' with files like Delete.aspx, insert.aspx, ProcedureTest.aspx, and Update.aspx. The status bar at the bottom indicates 'Activate Windows' and 'Go to Settings to activate Windows.'

```
1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4  using System.Web;
5  using System.Web.UI;
6  using System.Web.UI.WebControls;
7  using System.Data.SqlClient;
8
9  namespace SQLtest
10 {
11     public partial class WebForm1 : System.Web.UI.Page
12     {
13         protected void Page_Load(object sender, EventArgs e)
14         {
15             string connection_str;
16
17             connection_str = @"Data Source=96.0.0.110;Initial Catalog=BasicTraining ;User ID=Developer;Password=d123";
18             SqlConnection conn = new SqlConnection(connection_str);
19             conn.Open();
20
21             string command, output="";
22             SqlDataReader dataReader;
23             command = "Select * from dbo.Customer2";
24             SqlCommand cmd = new SqlCommand(command,conn);
25
26             dataReader = cmd.ExecuteReader();
27
28             while (dataReader.Read())
29             {
30                 output += dataReader.GetValue(0) + " - " + dataReader.GetValue(1) + " - " + dataReader.GetValue(2) + " - " + dataReader.GetValue(3) + " - " + dataReader.GetValue(4) + " - " + dataReader.GetValue(5) + " - " + dataReader.GetValue(6) + " - " + dataReader.GetValue(7) + " - " + dataReader.GetValue(8) + " - " + dataReader.GetValue(9) + " - " + dataReader.GetValue(10) + " - " + dataReader.GetValue(11) + " - " + dataReader.GetValue(12) + " - " + dataReader.GetValue(13) + " - " + dataReader.GetValue(14) + " - " + dataReader.GetValue(15) + " - " + dataReader.GetValue(16) + " - " + dataReader.GetValue(17) + " - " + dataReader.GetValue(18) + " - " + dataReader.GetValue(19) + " - " + dataReader.GetValue(20) + " - " + dataReader.GetValue(21) + " - " + dataReader.GetValue(22) + " - " + dataReader.GetValue(23) + " - " + dataReader.GetValue(24) + " - " + dataReader.GetValue(25) + " - " + dataReader.GetValue(26) + " - " + dataReader.GetValue(27) + " - " + dataReader.GetValue(28) + " - " + dataReader.GetValue(29) + " - " + dataReader.GetValue(30) + " - " + dataReader.GetValue(31) + " - " + dataReader.GetValue(32) + " - " + dataReader.GetValue(33) + " - " + dataReader.GetValue(34) + " - " + dataReader.GetValue(35) + " - " + dataReader.GetValue(36) + " - " + dataReader.GetValue(37) + " - " + dataReader.GetValue(38);  
31         }
32     }
33 }
```

- Work on task to perform crud operation in asp.net core mvc using ms sql database.
- Task on crud operation in asp.net core mvc using ajax, javascript and jquery.

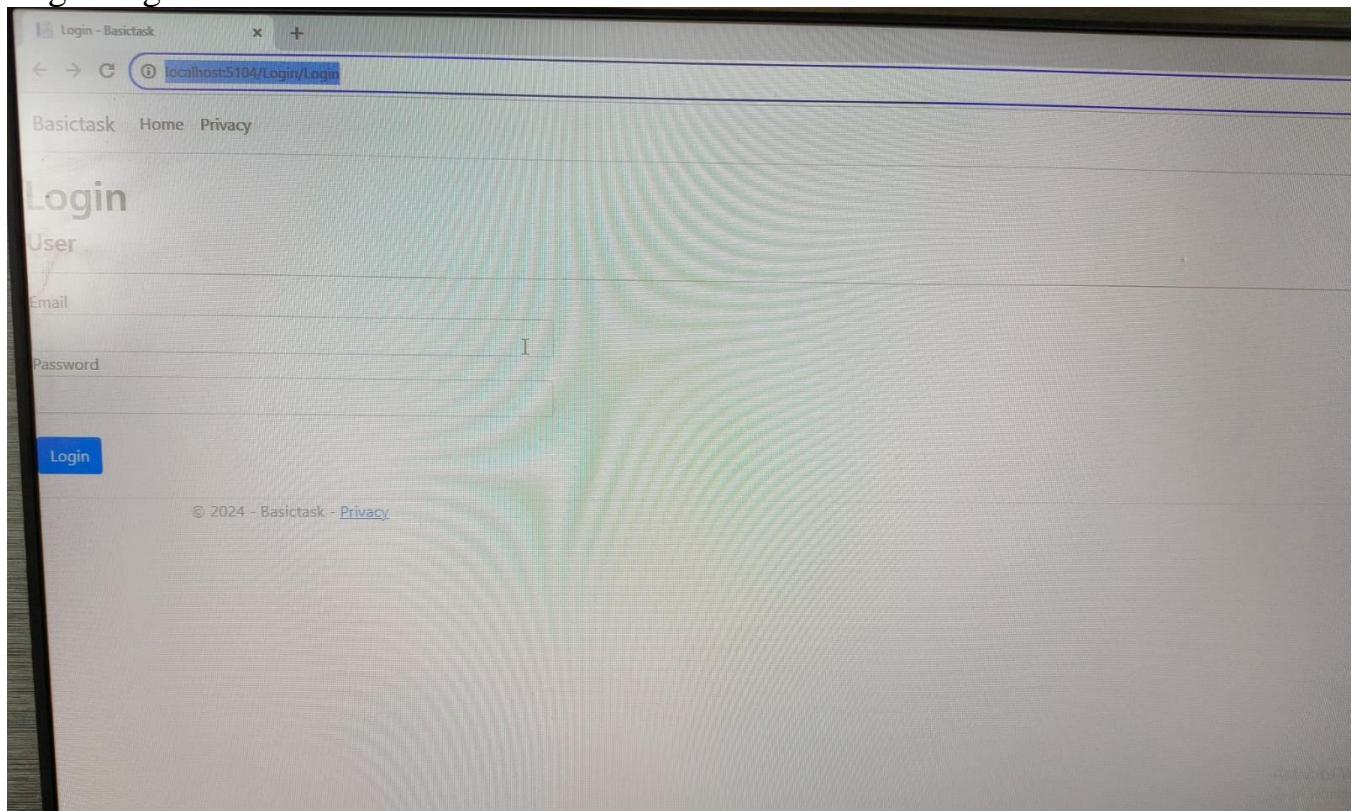
The screenshot shows the Visual Studio IDE interface. The code editor displays the `IndexController.cs` file, which contains C# code for an ASP.NET Core MVC application. The Solution Explorer on the right shows the project structure for 'Basictask' with files like `UserController.cs`, `IndexController.cs`, and `Models/User.cs`. The status bar at the bottom indicates 'Ready'.

```

1  using Microsoft.AspNetCore.Mvc;
2  using System.Data;
3  using System.Data.SqlClient;
4  using Basictask.Models;
5  namespace Basictask.Controllers
6  {
7      [ApiController]
8      public class IndexController : Controller
9      {
10         private readonly Microsoft.AspNetCore.Hosting.IHostingEnvironment hostingenvironment;
11         private readonly IConfiguration _configuration;
12         public IndexController(Microsoft.AspNetCore.Hosting.IHostingEnvironment environment, IConfiguration configuration)
13         {
14             hostingenvironment = environment;
15             _configuration = configuration;
16         }
17         public IActionResult Index()
18         {
19             if (HttpContext.Session.GetString("Username") != null)
20             {
21                 DataTable dt = new DataTable();
22                 var str = _configuration.GetConnectionString("connectionstr");
23                 using (SqlConnection conn = new SqlConnection(str))
24                 {
25                     conn.Open();
26                     string q = "Select * from pregister where isdelete='C'";
27                     SqlDataAdapter adapter = new SqlDataAdapter(q, conn);
28                     adapter.Fill(dt);
29                 }
30             }
31             return View(dt);
32         }
33     }

```

Login Page



Index Page

The screenshot shows a web application titled "Index" under the "Basictask" menu. The page displays a table of user data with columns: FirstName, LastName, Gender, City, Email, PhoneNo, Image, Action, and Action. The data includes:

FirstName	LastName	Gender	City	Email	PhoneNo	Image	Action	Action
Mahendra	Dod	Male	Vadodara	Mahendra@gmail.com	1234567890		Edit	Delete
mayan	suthar	Male	Surat	mayan@gmail.com	9854564896		Edit	Delete
dfgsf	sfg	Male	Rajkot	sfg@gmail.com	2343534		Edit	Delete
tset	patel	Male	Ahmedabad	tset@gmail.com	9874563210		Edit	Delete
sdfg	sfgdf	Male	Surat	xyz@gmail.com	5645154535		Edit	Delete
stdg	sdfgsdf	Male	Vadodara	dghfg	1234567890		Edit	Delete
jhk	ghjkg	Male	Ahmedabad	gjk@gmail.com	1234567890		Edit	Delete

[Add Users](#)

Register Page

The screenshot shows a "Create" page under the "Basictask" menu. The page title is "Create" and the subtitle is "Register". The form fields include:

- FirstName:
- LastName:
- Password:
- Gender: Male Female
- City: Please Select One
- Email:
- Phone No:
- Upload: Choose File No file chosen
-
- [Back to List](#)

Edit Page

The screenshot shows a web browser window titled 'Edit - Basictask'. The URL is 'localhost:5104/Edit/Edit/1'. The page has a header with 'Basictask' and navigation links 'Home', 'Privacy', and 'Logout'. Below the header, the word 'Edit' is displayed in large letters, followed by 'Register'. The form fields include:

- FirstName: Mahendra
- LastName: Dod
- Password: Mahendra@123
- Gender: Male Female
- City: Vadodara
- Email: Mahendra@gmail.com
- Phone No: 1234567890
- Upload: Choose File: No file chosen

At the bottom left is a blue 'Edit' button, and at the bottom right is a link 'Back to List'. The taskbar at the bottom shows various application icons.

Delete operation.

The screenshot shows a web browser window titled 'Index - Basictask'. The URL is 'localhost:5104'. A modal dialog box is open, displaying the message 'localhost:5104 says' and 'Are you sure you want to delete this Data?'. The 'OK' button is highlighted with a blue border. The main content area shows a table titled 'Index' with the heading 'Welcome Mahendra'. The table lists user data:

FirstName	LastName	Gender	City	Email	PhoneNo	Image	Action	Action
Mahendra	Dod	Male	Vadodara	Mahendra@gmail.com	1234567890		Edit	Delete
mayan	suthar	Male	Surat	mayan@gmail.com	9854564896		Edit	Delete
dfgsf	sfg	Male	Rajkot	sfg@gmail.com	2343534		Edit	Delete
tset	patel	Male	Ahmedabad	tset@gmail.com	9874563210		Edit	Delete
sdfg	sfgdf	Male	Surat	xyz@gmail.com	5645154535		Edit	Delete
sfdg	sdfgsdf	Male	Vadodara	dghfg	1234567890		Edit	Delete
jhk	ghjkg	Male	Ahmedabad	gjk@gmail.com	1234567890		Edit	Delete

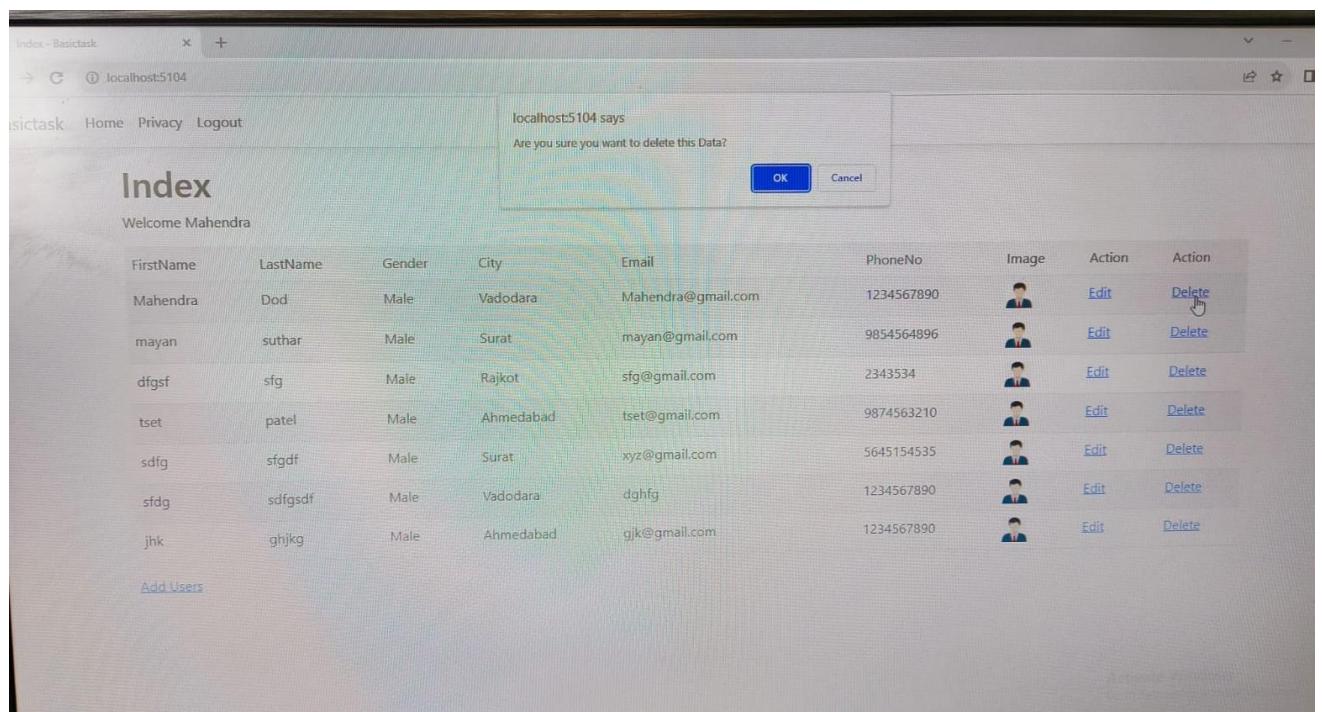
At the bottom left is a link 'Add Users'. The taskbar at the bottom shows various application icons.

CHAPTER: 4 WEEK-5 to 6 PROGRESS

CHAPTER 4 WEEK-5 To 6 PROGRESS

Week-5 Technical Training and Task

- Session on Ip Management
- Session on SDLC, CSV, ISO
- Task on crud operation in asp.net core mvc using ajax, javascript and jquery



CHAPTER: 4 WEEK-5 To 8 PROGRESS

Week-6 Technical Training and Tasks

- Front End Training (HTML, CSS, JavaScript, React JS)
- Task on example of local storage and session storage in react js

Adding Task

The screenshot shows a browser window with the URL `localhost:3000/localStorage`. The main content area displays a todo app with two items: "hello" and "suii". Below the app is a developer tools window with the "Application" tab selected. The "Storage" section under Application shows the following data:

Key	Value
crudData	[]
todoArr	["hello", "suii"]
count	0
selectedColor	White

Edit Task

The screenshot shows a browser window with the URL `localhost:3000/LocalStorage#`. The todo app now has only one item: "hello". The developer tools window shows the same storage data as before, but the "todoArr" key now contains only the single item "hello".

Todo App

The screenshot shows a browser window with the todo app displaying a single task: "hello". There is a "Save" button next to the task input field.

CHAPTER: 4 WEEK-5 To 8 PROGRESS

Week-7 Technical Training and Tasks

- Learn how to use Asp.net core web api in mvc
- Session on Quality Assurance
- Debug PvEdge Project Client Master Module and understand its flow

CHAPTER: 4 WEEK-5 To 8 PROGRESS

CHAPTER 10 WEEK-5 To 8 PROGRESS

Week-8 Technical Training and Tasks

- Update data dictionary of ClientMaster And AgencyMaster
- Build TimeZone Master Module Done Front End Page and created Views And Procedures

CHAPTER: 5 WEEK-9 To 12PROGRESS

Week-9 Technical Training and Tasks

- Build TimeZone Master Module where we can Add, Edit, Delete and View TimeZone Data.
- Solve PvEdge Project Study Setup Module issue of not getting formulation data at time of editing
- Front End Training(Javascript, React Js)



CHAPTER: 5 WEEK-9 To 12 PROGRESS

Week-10 Technical Training and Tasks

- Front End Training(JavaScript, ReactJs)
- Counter App with Local Storage in reactjs

Increment value

The browser screenshot shows a simple counter application with a value of 8. The DevTools screenshot shows the local storage state:

Key	Value
crudData	[]
todoArr	["hello", "suli"]
count	8
selectedColor	White

Decrement value

The browser screenshot shows the counter value has been decremented to 3. The DevTools screenshot shows the local storage state:

Key	Value
crudData	[{"name": "mahendra", "email": "mahendrasinhdod@gmail.com", "password": "Mahendra@123", "mobile": "8200729066"}]
todoArr	["hello", "suli"]
count	3
selectedColor	White

- Take 3 button red green blue on click save data in LocalStorage and on based on color change background color of component.

Blue Color

The screenshot shows a browser window with a blue background. At the top, there is a navigation bar with icons and a search bar. Below the navigation bar, a sidebar contains links: Counter, Color, Calculator, TODO, localStorage, and CRUD. The main content area features a title "Color Picker" and four buttons: Red, Green, Blue, and Reset. The "Blue" button is highlighted with a black border. Below the buttons is a large blue rectangular area. To the right of the browser window is the Chrome DevTools interface. The "Application" tab is selected, showing the storage section. Under "LocalStorage", there are three items: crudData (empty array), todoArr (array containing ["hello", "suii"]), and count (number 8). Under "SelectedColor", the value is listed as "blue".

Red Color

The screenshot shows a browser window with a red background. The layout is identical to the previous screenshot, with a sidebar containing links: Counter, Color, Calculator, TODO, localStorage, and CRUD. The main content area features a title "Color Picker" and four buttons: Red, Green, Blue, and Reset. The "Red" button is highlighted with a black border. Below the buttons is a large red rectangular area. To the right of the browser window is the Chrome DevTools interface. The "Application" tab is selected, showing the storage section. Under "LocalStorage", there are three items: crudData (empty array), todoArr (array containing ["hello", "suii"]), and count (number 3). Under "SelectedColor", the value is listed as "red".

Green Color

The screenshot shows a browser window with a sidebar containing links like Counter, Color, Calculator, Todo, localStorage, and CRUD. Below this is a heading "Color Picker" with buttons for Red, Green, Blue, and Reset. The background of the page is green. At the bottom is a browser's developer tools interface with the "Application" tab selected. The left sidebar under "Storage" shows "Local storage" expanded, with "http://localhost:3000" selected. The main table lists items from local storage:

Key	Value
crudData	[{"name": "mahendra", "email": "mahendrasinhdod@gmail.com", "password": "123456"}, {"name": "sui", "email": "sui@gmail.com", "password": "123456"}]
todoArr	["hello", "sui"]
count	3
selectedColor	green

CHAPTER: 5 WEEK-9 To 12 PROGRESS

Week-11 And 12 Technical Training and Tasks

- Create mini calculator in ReactJS

Add

Color

Calculator

ToDo

localStorage

CRUD

Mini Calculator

Num1:

Num2:

Ans : 30

Substract

Counter

Color

Calculator

ToDo

localStorage

CRUD

Mini Calculator

Num1:

Num2:

Ans : 10

- Create Signup form name,email,password,mobile no etc in ReactJS

Add Data

Name:

Email:

Password:

Mobile:

Name	Email	Password	Mobile	Action
mahendra	mahendrasinhod@gmail.com	Mahendra@123	8200729066	Edit Delete

LocalStorage:

```

crudData: [{"name": "mahendra", "email": "mahendrasinhod@gmail.com", "password": "Mahendra@123", "mobile": "8200729066"}]
todoArr: ["hello", "sui"]
count: 8
selectedColor: White

```

Edit Data

[Counter](#)
[Color](#)
[Calculator](#)
[TODo](#)
[localStorage](#)
[CRUD](#)

CRUD App

Name:

Email:

Password:

Mobile:

Name	Email	Password	Mobile	Action
Mahendrasinh Dod	mahendrasinhod@gmail.com	Mahendra@123	8200729066	Edit Delete

Delete Data

[Counter](#)
[Color](#)
[Calculator](#)
[TODO](#)
[localStorage](#)
[CRUD](#)

CRUD App

Name:

Email:

Password:

Mobile:

Name	Email	Password	Mobile	Action
------	-------	----------	--------	--------

CHAPTER: 6 Week-13 To 16 Progress

Week-13 To 16 Live Project Debugging and Understanding (QC-Checklist)

1 Solution Company Provide:

- PvEdge: An end-to-end drug safety database & Pharmacovigilance software
- BizNET: An end-to-end clinical trial management suite
- QEdge: An enterprise quality management system (Quality Processes, Documents, Trainings)
- ProcessXE: A smart manufacturing solutions
- FForce: An AI based sales force automation solution
- PharmaNET: A platform to manage sales & distribution activities

2 Software and Hardware Requirements

Software requirements

- SQL Server 2019
- .NET CORE (version - 5.0 or more)
- IIS Express
- Visual Studio 2017 or more
- SQL Server Management Studio v18 or more

Hardware requirements

- Windows XP, 7, 8, 10, 11.
- AMD or Intel Dual core CPU (1.6 GHz Speed).
- 2gb RAM or more
- 20 GB storage space

4 Study of current system

Case Management: PvEdge provides a centralized platform for case management, enabling users to capture, process, and track adverse events and other safety-related information in a timely and efficient manner.

Signal Detection: PvEdge helps identify potential safety signals by analyzing and aggregating safety data from various sources, including clinical trials, post- marketing surveillance, and spontaneous reports.

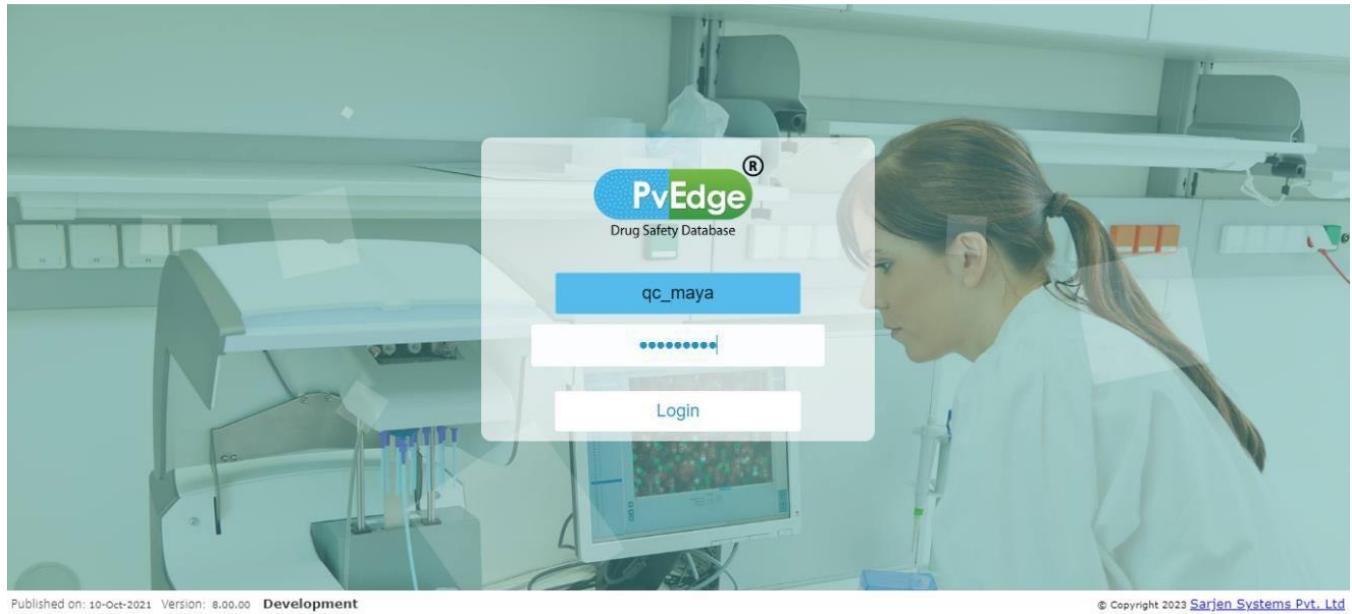
Risk Management: PvEdge provides a range of tools and techniques to assess and manage the risks associated with pharmaceutical products, including signal evaluation, risk evaluation and mitigation strategies (REMS), and risk communication.

Reporting and Analytics: PvEdge enables users to generate a wide range of reports and analytics to support drug safety decision-making, including trend analysis, safety signal management, and aggregate reporting

5 User Characteristics

- **Advance User** has the rights for Data Entry.
- **Med. Reviewer** will be validating the information entered by Advance. QC User will be validating and checking the Quality of Data.
- Lastly **Submission User** is having the rights of Submitting the Case.
- **Super User** has the Main Administrative Rights for Creation of Masters-Clients, Projects etc. Apart from that user also has the rights of Report Creation, generate Audit details and MedDRA Management.

6 Project ScreenShots:



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Login Page

A screenshot of the PvEdge homepage. The top navigation bar includes links for Home, Masters, ADR(Case), Reports, Literature, Utilities, and Logout. The top right corner shows a welcome message for 'Maya Langnecha (QC)' with login details. The main content area features a 'Notice' section with a blue background and a 'Quick Links' sidebar on the left. The right side contains a grid of green cards with various alert and case status summaries.

Category	Count
Expedited Case(s) QC	8
Expedited Case(s) All Stages	97
I am working on Case(s)	0
Pending Cases(s) QC	0
Pending Case(s) All Stages	0
Expedited Cases Alerts	6
Non Expedited Cases Alerts	833
PSUR/PADER Alerts	17
Follow Up Alerts	4

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HomePage

PvEdge
Drug Safety Database

MISSION Electronic Submission to Regulatory Agencies E2B, 21 CFR Part 11 Pharmacovigilance Data Management E2B, 21 CFR Part 11

Welcome, Maya Langnecha (QC) Login Time: 04-May-2023 15:40 Last Login: 04-May-2023 15:15 Session Expires In: 01:29:25

Home Masters ADR(Case) Reports Literature Utilities Logout

Fields with * are Mandatory

ADR Source: Regulatory Client: Maya-Drug-INDIA-24.0 Search ADR: IN-Mayo-Drug-000003-01 << Back >>

Safety Report ID: IN-Mayo-Drug-000003-01

Work Flow Status: QC

ADR Entry Primary Source Patient Parent Product AE Product-AE Lab Assessment Assessment Remarks Sender/Receiver Additional/Literature Docs

ADR Entry

Safety Report Id: IN-Mayo-Drug-000003-01 Other Case Identifier: Initial Followup Report Type: 1=Spontaneous

Source Country *: INDIA Case Created On *: 04-May-2023 14:35:01 ADR Receipt Date/Time *: 04-May-2023 HH:MM:SS Company Received Date/Time (ADR Date/Time) *: 04-May-2023 HH:MM:SS

PV Received Date/Time: 04-May-2023 HH:MM:SS First Sender of the Case *: Regulator Authority Report No.: 04-May-2023 Worldwide Unique Case Identification Number: in-Mayo

Non-Reportable To: Authority Report Run Date/Time: 04-May-2023 14:21:52 Report Version:

Case Creation

Fields with * are Mandatory

ADR Source: Regulatory Client: Rajan-Drug-INDIA-24.0 Search ADR: IN-Rajan-Drug-000003-01 << Back >>

Safety Report ID: IN-Rajan-Drug-000003-01

Work Flow Status: QC

ADR Entry Primary Source Patient Parent Product AE Product-AE Lab Assessment Assessment Remarks Sender/Receiver Additional/Literature Docs

Drug Medical Device/Incident Vaccine Medical Device for India

Drug Details

Drug Dictionary: PARACETAMOL Proprietary Name*: PARACETAMOL

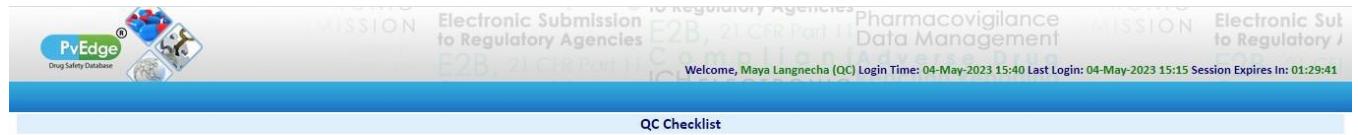
Brand Name: Intas Is Proprietary

Drug Characterization*: 1=Suspect Active Substance: Drug Obtained: INDIA Additional Information on Drug:

Company Product

Additional Information: Action Taken: Indication as reported by the primary source: Drug Indication: MedDRA

Product Tab



This case is error free?

Yes No

[Save](#) [Cancel](#)



localhost says

Record save successfully.

[OK](#)

to an... React PvEdge 90.0.0.110/cryptoco...

Checklist_Yes_Save Page



Electronic Submission to Regulatory Agencies E2B, 21 CFR Part 11 Pharmacovigilance Data Management E2B, 21 CFR Part 11 ICH SAEs Reporting Electronic Sub to Regulatory J

Welcome, Maya Langnecha (QC) Login Time: 04-May-2023 15:40 Last Login: 04-May-2023 15:15 Session Expires In: 01:29:47

QC Checklist

This case is error free?: Yes No Case Id: IN-Maya-Drug-000003-01 Tab:

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Checklist_No Page

This case is error free?: Yes No Case Id: IN-Rajan-Drug-000003-01 Tab:

- Select TabName--
- ADR Entry
- Primary Source
- Patient
- Parent
- Product
- AE
- Product AE
- Lab Assessment
- Assessment
- Remarks
- Additional/Literature Docs/Docs
- External ID
- Duplicate
- Multiple copy/Link case
- Other

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Checklist_No_Tab Page

PvEdge®
Drug Safety Database

Electronic Submission to Regulatory Agencies E2B, 21 CFR Part 11 Pharmacovigilance Data Management

Welcome, Maya Langnecha (QC) Login Time: 04-May-2023 16:04 Last Login: 04-May-2023 16:03 Session Expires In: 01:29:27

QC Checklist

This case is error free?: Yes No Case Id: IN-Maya-Drug-000003-01 Tab: ADR Entry Go

Tab Name	Field Name	Value	AdvanceEntry Remark	MR Remark
ADR Entry	Safety Report Id	0		
ADR Entry	Initial/Followup	0		
ADR Entry	Report Type	2		
ADR Entry	Source Country	3		
ADR Entry	Case Created On	0		
ADR Entry	ADR Receipt Date	3	no Properly date	
ADR Entry	Company Received Date (ADR Date)	1		
ADR Entry	PV Received Date	1		

Checklist_No_ADR Page

PvEdge®
Drug Safety Database

Electronic Submission to Regulatory Agencies E2B, 21 CFR Part 11 Pharmacovigilance Data Management

Welcome, Maya Langnecha (QC) Login Time: 04-May-2023 16:04 Last Login: 04-May-2023 16:03 Session Expires In: 01:29:51

QC Checklist

This case is error free?: Yes No Case Id: IN-Maya-Drug-000003-01 Tab: ADR Entry Go

Tab Name	Field Name	Value	AdvanceEntry Remark	MR Remark	Edit	Delete
ADR Entry	Source Country	3	italy			
ADR Entry	ADR Receipt Date	3	no Properly date			

Showing 1 to 2 of 2 entries

First Previous Next Last

Save Cancel

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Checklist_No_ADR_ADD Page

PvEdge
Drug Safety Database

MISSION Electronic Submission to Regulatory Agencies E2B, 21 CFR Part 11 Pharmacovigilance Data Management

Welcome, Maya Langnecha (QC) Login Time: 04-May-2023 16:04 Last Login: 04-May-2023 16:03 Session Expires In: 01:29:51

Home Masters ADR(Case) Reports Literature Utilities Logout

QC CheckList Report

Fields with * are Mandatory

Individual Cumulative

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QC Checklist Report Main Page

PvEdge
Drug Safety Database

MISSION Electronic Submission to Regulatory Agencies E2B, 21 CFR Part 11 Pharmacovigilance Data Management

Welcome, Maya Langnecha (QC) Login Time: 04-May-2023 16:04 Last Login: 04-May-2023 16:03 Session Expires In: 01:29:51

Home Masters ADR(Case) Reports Literature Utilities Logout

QC CheckList Report

Fields with * are Mandatory

Individual Cumulative

Username: ALL Client: Maya-Drug-INDIA Project: MayaDrug-IN-(PARACETAMOL) Tab: ALL Stage: ALL

Category: ALL From QC Date: 04-May-2023 To QC Date: 04-May-2023 Source: ALL

All Dates

Export To Excel Errorlist Export To Excel WithoutError

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QC Checklist Report_Indivi Page

http://localhost/Web_PvEdge_8_00_00/frmQCChecklistReport.aspx

QC CheckList Report

Fields with * are Mandatory

Username: ALL Client: Rajan-Drug-INDIA Project: RajanDrug-IN-(PARACETAMOL) Tab: ALL Stage: ALL

Category: ALL From QC Date: 18-Apr-2023 To QC Date: 18-Apr-2023 Source: ALL

All Dates

Export To Excel Errorlist **Export To Excel WithoutError**

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QC Checklist Report_Indi_ExcelDownload Page

QC CheckList Report

Fields with * are Mandatory

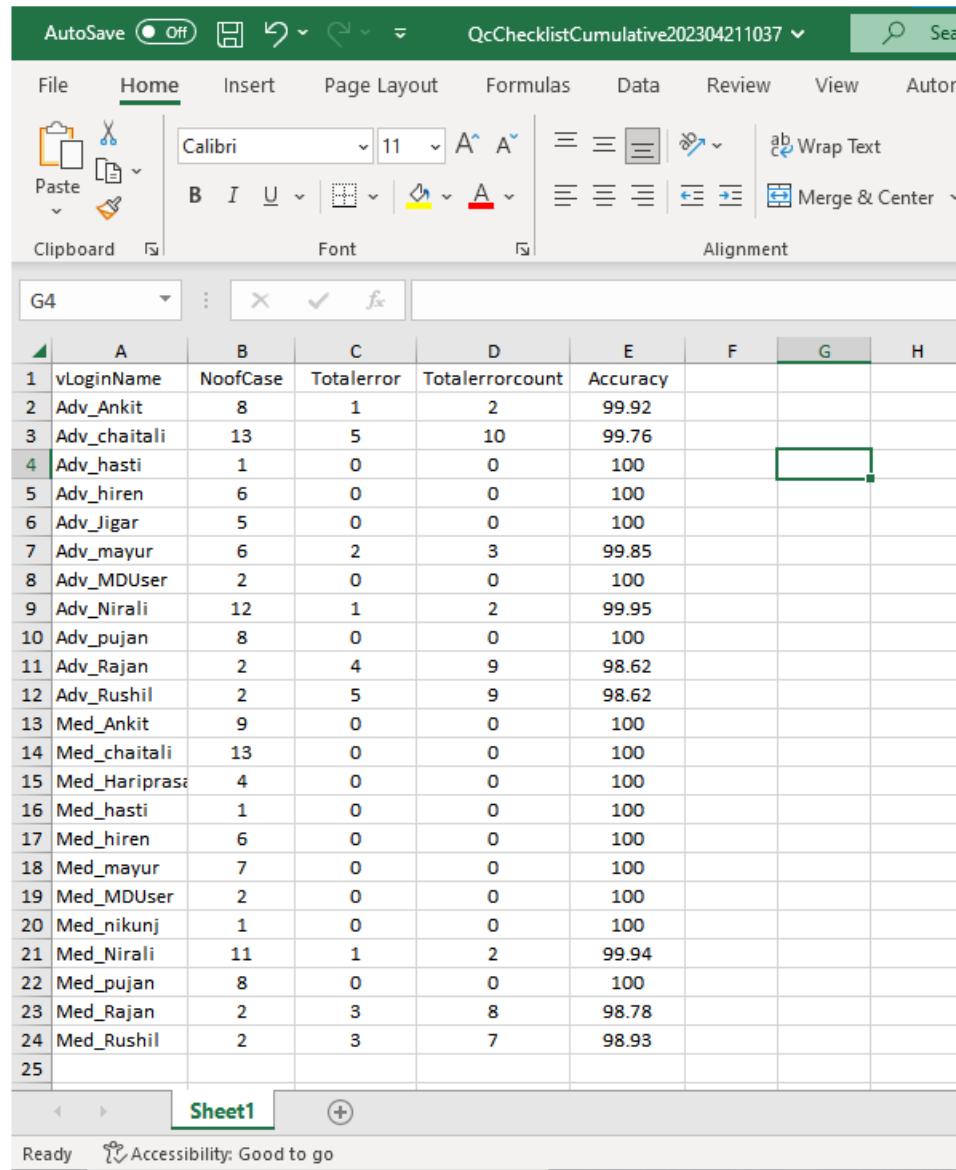
User Name: Med_Maya From QC Date: 04-May-2023 To QC Date: 04-May-2023

All Dates

Export To Excel

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QC Checklist Report_Cum Page



The screenshot shows a Microsoft Excel spreadsheet titled "QcChecklistCumulative202304211037". The "Home" tab is selected in the ribbon. The table contains the following data:

	A	B	C	D	E	F	G	H
1	vLoginName	NoofCase	Totalerror	Totalerrorcount	Accuracy			
2	Adv_Ankit	8	1	2	99.92			
3	Adv_chaitali	13	5	10	99.76			
4	Adv_hasti	1	0	0	100			
5	Adv_hiren	6	0	0	100			
6	Adv_Jigar	5	0	0	100			
7	Adv_mayur	6	2	3	99.85			
8	Adv_MDUser	2	0	0	100			
9	Adv_Nirali	12	1	2	99.95			
10	Adv_pujan	8	0	0	100			
11	Adv_Rajan	2	4	9	98.62			
12	Adv_Rushil	2	5	9	98.62			
13	Med_Ankit	9	0	0	100			
14	Med_chaitali	13	0	0	100			
15	Med_Hariprasa	4	0	0	100			
16	Med_hasti	1	0	0	100			
17	Med_hiren	6	0	0	100			
18	Med_mayur	7	0	0	100			
19	Med_MDUser	2	0	0	100			
20	Med_nikunj	1	0	0	100			
21	Med_Nirali	11	1	2	99.94			
22	Med_pujan	8	0	0	100			
23	Med_Rajan	2	3	8	98.78			
24	Med_Rushil	2	3	7	98.93			
25								

QC Checklist Cumulative Report

Sr no.	Client	Case number	PvEdge Tab	PvEdge Field	Advance entry o	Advance entry	Advance ei	Advance ei	Advance ei	Medical reviewer o	Medical reviewer	Medical re
1	Rajan-Drug	DZ-Rajan-Drug- ADR Entry	Report Type	test	Rushil					user	Rushil	
2	Rajan-Drug	DZ-Rajan-Drug- AE	Main Event	no	Rushil						Rushil	
3	Rajan-Drug	DZ-Rajan-Drug- Primary Sour	Primary Reporter/Orushil		Rushil						Rushil	
4	Rajan-Drug	IN-Rajan-Drug-(ADR Entry	Source Country	India	Rajan					China	Rajan	
5	Rajan-Drug	IN-Rajan-Drug-(Product	Drug Dictionary	test purpose	Rajan					demo 12	Rajan	

QC Checklist Individual Report

CHAPTER: 7 REFERENCES

CHAPTER 7 REFERENCES

Company

- <https://www.sarjen.com/>
- <https://pvedge.sarjen.com/>

Other Reference

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- <https://www.javatpoint.com/sql-languages>
- <https://learn.microsoft.com/en-us/aspnet/core/mvc/overview>
- <https://visualstudio.microsoft.com/vs/>