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Student Name: Aashish Neupane

London Met ID: 22072025

College ID: NP05CP4A220004

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I confirm that I understand my coursework needs to be submitted online via My second teacher under the relevant module page before the deadline in order for my assignment to be accepted and marked. I am fully aware that late submissions will be treated as non-submission and a mark of zero will be awarded.

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1 Introduction

LS Corporation which is a mid-size technology company has struggled to manage multiple project due to fragmented system which includes the problems like poor communication, inefficiencies and difficult in tracking the progress. As we know that, the effective project management is very essential in any types of business mainly in those technology firms where communication and precision are key for their success.

So, to overcome these issues, LS corporation want to develop a comprehensive project management system that aimed at centralizing data, optimizing work allocations and improve project visibility. This helps company staff like project manager, developer and designer to work effectively and collaboratively that offers many features like multi-project management, resources allocation and so on. The system main priority is to focus on milestone tracking so that the project can divides into manageable phases that include prototype completion, beta release and others with due date.

The prototype for this system will be build using Oracle SQL Developer Data Modeler for data modeling and ASP.NET with C# for application development. This approach makes our system user-friendly, provide more scalable solution so that there will be easy to make changes for this company.

1.1 Aims:

The main aim of the coursework is to design and develop a centralized data, streamline task and robust system for LS corporation that increase efficiency in operations, make better communication and provide best visibility to make project progress.

1.2 Objectives:

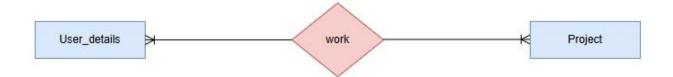
- Developing a problem-solving database system solution for LS Corporation.
- Develop a system to eradicate decentralized data storage issues that is currently present in the organization.
- Develop a simple CRUD operation friendly database system.
- Develop a final database system that meets the organization's expectation.

1.3 Business Rules

Some business rules are provided below for the successful operation of this system:

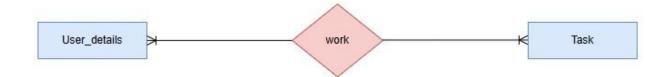
1.3.1 User and Project:

There will be many-to-many relationship between User and Project. A user can manage multiple projects, and one project is associated with many users.



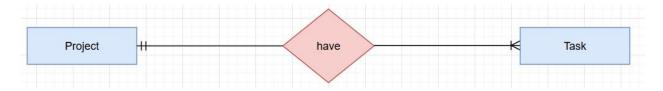
1.3.2 User and Task

There is Many-to-Many relationship between user and task. A user can perform multiple tasks and, each task can have multiple users.



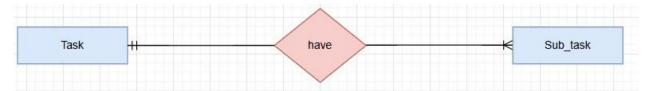
1.3.3 Project and Task:

There will be one-to-one relationship between Project and Task. A project can have multiple tasks, but one task is related with one project.



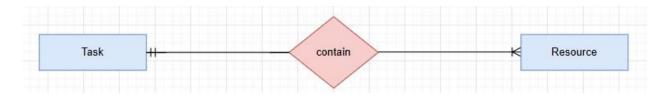
1.3.4 Task and Sub task:

There is one-to-many relationships between task and sub_task. A task can have many sub_task but one sub_task is associated one task.



1.3.5 Task and Resource:

There is one-to-many relationship between Task and Resource. Here, one task is associated with multiple resources but, one resource is related with one task.



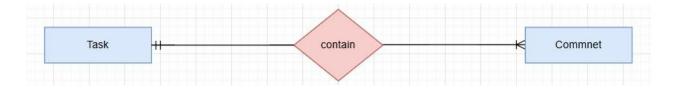
1.3.6 User and Comment:

There will be one-to-many relationship between user and comment. Here, one user can have multiple comment but, one comment is related to a user.



1.3.7 Task and Comment:

There will be one-to-many relationship between Task and Comment. One task can have multiple comment, but a comment is associated with a task.



2 Identification of Entities and Attributes:

The Entity Relationship Model is a high-level data model that describes the conceptual representation of a database. This ER model is considered a best choice for database design as it deals with global entities and their relationships between entities. It contains three main components:

- I) <u>Entity</u>: Entity can be defined as any things or object that can be uniquely recognized in the real world. For instance: person, products, organizations etc.)
- II) <u>Attributes</u>: All the entities are represented by its properties called attributes. In general, the attributes which are accessible to an entity are determined by its type or subtype. (Mondal, 2014)
- III) Relationships: Relationships describe how the association between two entity types are related. For examples: a mother loves her baby. In this case, 'Loves' is the relationships. Relationships allows datasets to share and store data in several tables. (Soni, 2024)

As the discussion of business rules is already done above. So, looking at that the required attributes of each entity are presented below:

1 Attributes	Attributes of User_details				
a. User_id	- Unique identifier for each user				
b. name	- User's Name				
c. email	- User's Email				
d. Address	- User's Address				
e. contact	- User's Contact				

2 Attribu	Attributes of Project		
a. project_id	- Unique identifier for each project		
b. project_name	- Project's name		
c. project_start_date	- Project's start date		
d. project_end_date	- Project's end date		
e. project_status	- Project's status		
f. milestone_name	- Milestone Name		
g. milestone_description	- Milestone Description		
h. milestone_start_date	- Milestone start date		
i. milestone_end_date	- Milestone end date		

3 Attr	Attributes of Task			
a. task _id	- Unique identifier for each task			
b. task _name	- Task name			
c. task _description	- Description of task			
d. task_start_date	- Start date for task			
e. task_end_date	- End date for task			
f. task_status	- Task status			

4 Attribute	Attributes of Sub_task			
a. <u>sub_task_id</u>	- Unique identifier for each sub_task			
b. sub_task_name	- Sub task name			
c. sub_task_desc	- Sub task description			
d. sub_task_start_date	- Sub task start date			

e. sub_task_end_date	- Sub task end date
f. sub_task_status	- Sub task status

Attributes of Resource			
a. resource_id	- Unique identifier for each resource		
b. resource_name	- name of resource		
c. resource_type	- resource type		
d. resource_description	- Description of task		

6 Attribu	Attributes of Comment			
a. comment_id	- Unique identifier for each comment			
b. comment_details	- details of comment			
c. comment_type	- type of comment			
d. comment_date	- date of comment			

2.1 Relationships

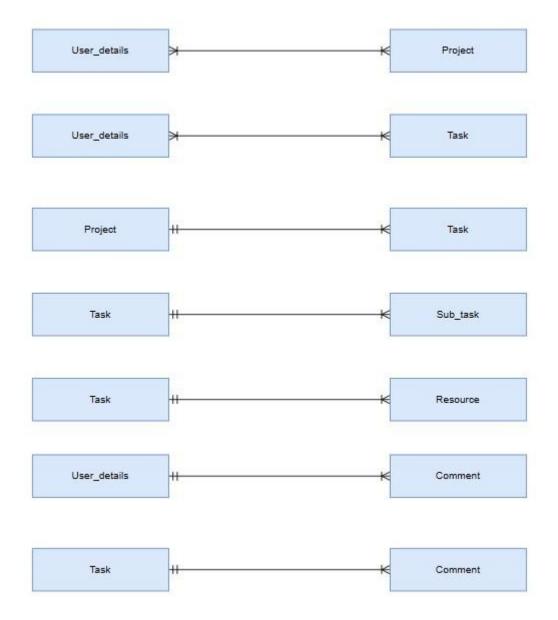


Figure 1: Relationships among Entities

2.2 Initial ERD:

The initial Entity Relationship Diagram required for the system is shown below where we collect Six entities: User, Project, Task, Sub_task, Resource and Comment. We connect these entities by relationships which reflect the properties of LS Corporation. Also, the entities have their attributes which describe the features of each entity and the relationships among them respectively.

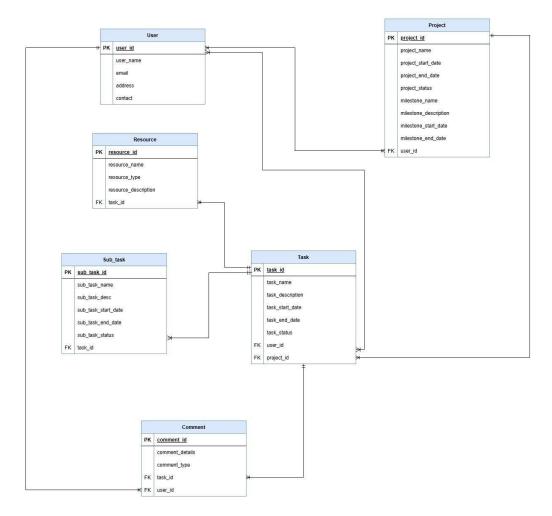


Figure 2: Initial ERD diagram

3 Normalization

In simple word, the way of arranging data into tables in such a way that queries executed on the database always accurate and reasonable results. Also, this is the way of getting data into simple forms which defines the separate entities and their respective attributes and relationships between them. (Margaret Rouse, 2024)

There are different Normalization degree of relational database tables and provided below:

3.1 UNF (Un-Normalized Form):

This In the first stage of the Normalization the task is to choose one unique identifier and proper mention all the attributes for the entity. Additionally, Curly braces '{ }' is for showing repeating group respectively.

Here, I am illustrating repeating data and repeating groups of my projects:

Assumption:

A single user can be a part of many projects and, one project is associated with many users. A user is assigned multiple tasks, and every task can be related to multiple users. One project can have multiple tasks, but one task is related with single project. A project has multiple milestones but, one milestone is related one project. Each task can have multiple sub tasks, but one sub task is related to one task.

User_details (user id, user_name, email, address, contact, { project_id, project_name, project_start_date, project_end_date, project_status, { milestone_name, milestone_description, milestone_start_date, milestone_end_date}, { task_id, task_name, task_description, task_start_date, task_end_date, task_status, {sub_task_id, sub_task_name, sub_task_desc, sub_task_start_date, sub_task_end_date, sub_task_status}})

3.2 1 NF (First Normalized Form):

This is the first degree of normalization in we removed the repeating groups and separate relation which makes simplicity and Consistent access. It also defines a Primary Key for each relation.

The 1 NF process of the system is provided below:

Here, we separate the repeating groups from non-repeating groups, and the result is:

User_details (<u>user_id</u>, user_name, email, address, contact)

Project (**project** id, project_name, project_start_date, project_end_date, project_status, **user_id***)

Milestone_details (<u>milestone_id</u>, milestone_name, milestone_description, milestone_start_date, milestone_end_date, **project_id***)

Task (<u>task_id</u>, task_name, task_description, task_start_date, task_end_date, task_status, project_ld*, user_id*)

Sub_task (**sub_task_id**, sub_task_name, sub_task_desc, sub_task_start_date, sub_task_end_date, sub_task_status, **task_id***)

Final 1- NF:

User_details -1 (<u>user_id</u>, user_name, email, address, contact)

Project -1 (**project id**, project_name, project_start_date, project_end_date, project_status, **user_id***)

Milestone_details -1 (<u>milestone_id</u>, milestone_name, milestone_description, milestone_start_date, milestone_end_date, **project_id***)

Task -1 (<u>task_id</u>, task_name, task_description, task_start_date, task_end_date, task_status, project_ld*, user_id*)

Sub_task-1 (**sub_task_id**, sub_task_name, sub_task_desc, sub_task_start_date, sub_task_end_date, sub_task_status, **task_id***)

3.3 2 NF (Second Normalized Form)

This is one of the most important stages of normalization because we check for the partial dependency and separates entities in two groups based on partial and full dependency and all non-key attributes are fully functional dependent on the primary key respectively.

The 2 NF process of my project is shown below:

Checking partial dependency on Project table:

The output after these partial dependencies is:

Project_info (<u>user_id*, project_id*</u>)

 Project_details
 (project_id, ____project_name, ___project_sart_date, project_end_Date, project_status)

Checking partial dependency on Task table

The output after these partial dependencies is:

Task_details (<u>task_id</u>, task_name, task_description, task_start_date, task_end_date, task_status)

Task_info (task_id*, project_id*, user_id*)

Final - 2NF:

User_details -2 (<u>user_id</u>, user_name, email, address, contact)

Project_details -2 (project_id, project_name, project_start_date,
project_end_date, project_status)

Project_info -2 (<u>user_id*</u>, project_id*)

Task_details-2 (<u>task_id</u>, task_name, task_description, task_start_date, task_end_date, task_status)

Task_info -2 (task id*, project_id*, user id*)

Sub_task -2 (sub_task_id, sub_task_name, sub_task_desc, sub_task_start_date, sub_task_end_date, sub_task_status, task_id*)

Milestine_details -2 (<u>milestone_id</u>, milestone_name, milestone_description, milestone_start_date, milestone_end_date, **project_id***)

3.4 3 NF (Third Normalized Form):

This is the final stages of Normalization where we establish the primary key and ensure that all non-key attributes are fully functional dependent on primary key. Then, we look after the transitive dependency, which is defined as attributes depends on other non-key attributes, to handle that we establish a new table for each group of independent attributes and use foreign key to construct links between each table respectively.

As per above solution, there are not any transitive dependencies for the final stages of Normalization,

The 3 NF process of this system is provided below:

User_details (<u>user_id</u>, user_name, email, address, contact)

Project_details (project_id, project_name, project_start_date,
project end date, project status)

Project_info (<u>user id*</u>, project_id*)

Task_details (<u>task_id</u>, task_name, task_description, task_start_date, task_end_date, task_status)

Task_info (task_id*, project_id*, user_id*)

Sub_task (sub_task_id, sub_task_name, sub_task_desc, sub_task_start_date, sub_task_end_date, sub_task_status, task_id*)

Milestine_details (<u>milestone_id</u>, milestone_name, milestone_description, milestone_start_date, milestone_end_date, **project_id***)

Final - 3 NF:

User_details -3 (user_id, user_name, email, address, contact)

Project_details -3 (project_id, project_name, project_start_date,
project_end_date, project_status)

Project_info -3 (<u>user_id*</u>, project_id*)

Task_details -3 (<u>task_id</u>, task_name, task_description, task_start_date, task_end_date, task_status)

Task_info -3 (task id*, project_id*, user id*)

Sub_task -3 (<u>sub_task_id</u>, sub_task_name, sub_task_desc, sub_task_start_date, sub_task_end_date, sub_task_status, task_id*)

Milestine_details -3 (<u>milestone_id</u>, milestone_name, milestone_description, milestone_start_date, milestone_end_date, **project_id***)

4 Final ERD

At, first the initial ERD was sketched in which in follow the case study and completed drawing the necessary entities, attributes and their relations between them. Then, the next process i.e. Normalization where we normalize the table to reduce data redundancy and minimize anomalies that can occurs while inserting, deleting or updating the data in the table. Now, the next step is to draw the Final ERD which is obtained from the normalization.

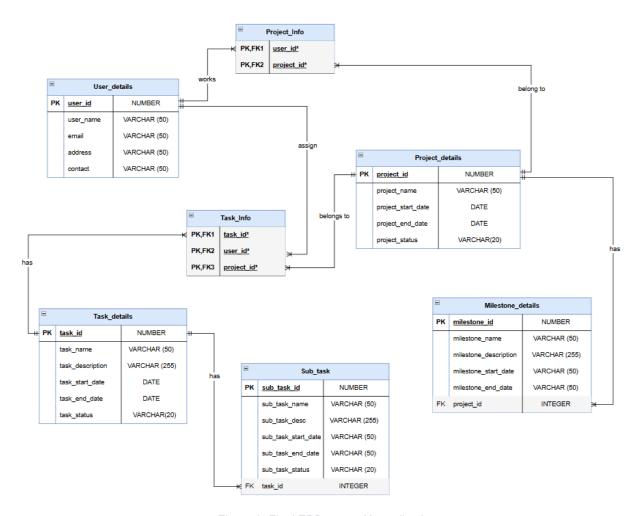


Figure 3: Final ERD as per Normalization

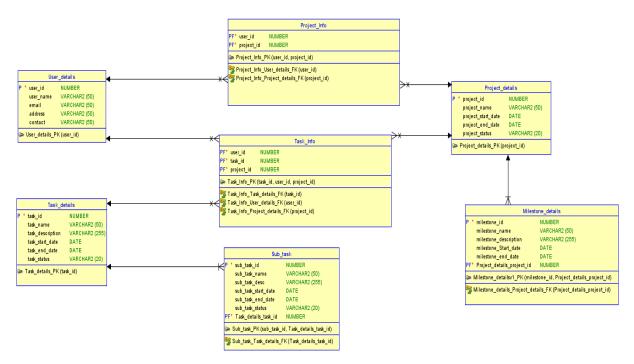


Figure 4: Final ERD from Modeler

5 Implementation

5.1 Connect System and Creating User

```
SQL*Plus: Release 11.2.0.2.0 Production on Fri Jan 3 10:11:29 2025

Copyright (c) 1982, 2014, Oracle. All rights reserved.

SQL> connect system;
Enter password:
Connected.
SQL> CREATE USER C##AashishNeupane_Coursework IDENTIFIED BY coursework;

User created.

SQL> GRANT CONNECT, RESOURCE TO C##AashishNeupane_Coursework;

Grant succeeded.

SQL> GRANT ALL PRIVILEGES TO C##AashishNeupane_Coursework;

Grant succeeded.

SQL> COMMIT;

Commit complete.

SQL>
```

Figure 5: Connect system and creating user

5.2 Connecting user with SQL Developer

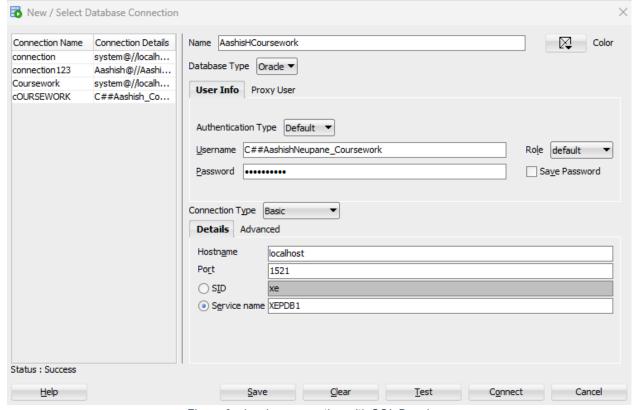


Figure 6: showing connection with SQL Developer

5.3 Creation of Table

5.3.1 Project_details Table

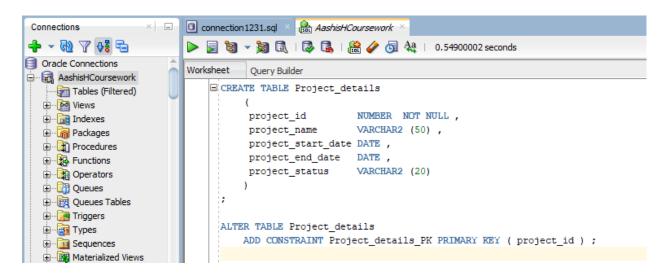


Figure 7: Creating Project_details Table

```
PROJECT_ID NOT NULL NUMBER
PROJECT_NAME VARCHAR2 (50)
PROJECT_START_DATE DATE
PROJECT_END_DATE DATE
PROJECT_STATUS VARCHAR2 (20)
```

Figure 8: DESC Project_details Table

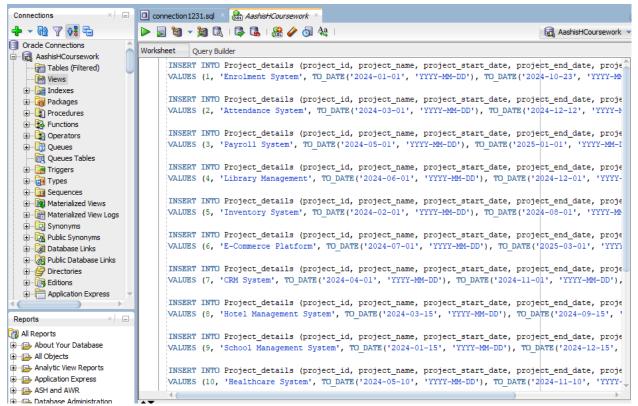


Figure 9: Inserting Value in Project details table

📌 📇 🝓 🗽 SQL All Rows Fetched: 15 in 0.005 seconds						
1	1	Enrolment System	01-JAN-24	23-0CT-24	Ongoing	
2	2	Attendance System	01-MAR-24	12-DEC-24	Ongoing	
3	3	Payroll System	01-MAY-24	01-JAN-25	Completed	
4	4	Library Management	01-JUN-24	01-DEC-24	Ongoing	
5	5	Inventory System	01-FEB-24	01-AUG-24	Completed	
6	6	E-Commerce Platform	01-JUL-24	01-MAR-25	Ongoing	
7	7	CRM System	01-APR-24	01-NOV-24	Ongoing	
8	8	Hotel Management System	15-MAR-24	15-SEP-24	Completed	
9	9	School Management System	15-JAN-24	15-DEC-24	Ongoing	
10	10	Healthcare System	10-MAY-24	10-NOV-24	Completed	
11	11	Travel Booking System	01-JUN-24	31-DEC-24	Ongoing	
12	12	ERP System	01-FEB-24	01-FEB-25	Ongoing	
13	13	Social Media App	01-MAR-24	01-JAN-25	Ongoing	
14	14	Online Banking System	01-AUG-24	01-MAY-25	Ongoing	
15	15	Mobile Wallet App	20-JAN-24	20-OCT-24	Completed	

Figure 10: Showing Project_details value

5.3.2 User_details Table:

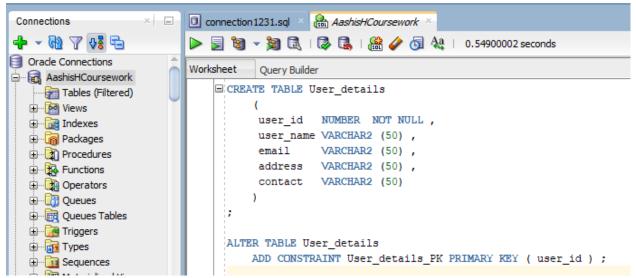


Figure 11: Creating User_details table

Name	Name Null?		Type	
USER_ID USER_NAME	NOT	NULL	NUMBER VARCHAR2 (50)	
EMAIL ADDRESS			VARCHAR2 (50) VARCHAR2 (50)	
CONTACT			VARCHAR2 (50)	

Figure 12: DESC User_details table

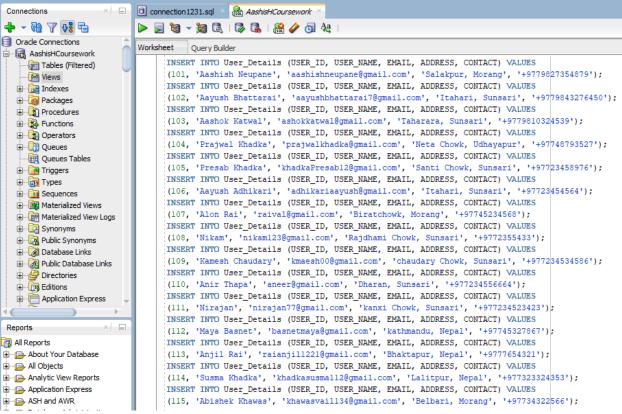


Figure 13: Inserting User_details value

		USER_NAME			
1	101	Aashish Neupane	aashishneupane@gmail.com	Salakpur, Morang	+9779827354879
2	102	Aayush Bhattarai	aayushbhattarai7@gmail.com	Itahari, Sunsari	+9779843276450
3	103	Aashok Katwal	ashokkatwal@gmail.com	Taharara, Sunsari	+9779810324539
4	104	Prajwal Khadka	prajwalkhadka@gmail.com	Neta Chowk, Udhayapur	+97748793527
5	105	Presab Khadka	khadkaPresabl2@gmail.com	Santi Chowk, Sunsari	+97723458976
6	106	Aayush Adhikari	adhikariaayush@gmail.com	Itahari, Sunsari	+97723454564
7	107	Alon Rai	raivai@gmail.com	Biratchowk, Morang	+97745234568
8	108	Nikam	nikam123@gmail.com	Rajdhami chowk, Sunsari	+9772355433
9	109	Kamesh Chaudary	kmaesh00@gmail.com	chaudary Chowk, Sunsari	+977234534586
10	110	Anir Thapa	aneer@gmail.com	Dharan, Sunsari	+977234565664
11	111	Nirajan	nirajan77@gmail.com	kanxi chowk, Sunsari	+977234523423
12	112	Maya Basnet	basnetmaya@gmail.com	kathmandu, Nepal	+97745327867
13	113	Anjil Rai	raianji1221@gmail.com	Bhakatpur, Nepal	+9777654321
14	114	Susma Khadka	khadkasusmall2@gmail.com	Lalitpur, Nepal	+97732332453
15	115	Abishek Khawas	khawasvail34@gmail.com	Belbari, Morang	+97734322566

Figure 14: Showing User_details Values

5.3.3 Project_Info Table:

```
connection 1231.sql × 🔝 AashisHCoursework
Connections
👆 🔺 🚱 🔬 🛂 🗗
                     Oracle Connections
                     Worksheet Query Builder
- AashisHCoursework
                         CREATE TABLE Project_Info
   ± Wiews
                              user id NUMBER NOT NULL ,
  project id NUMBER NOT NULL
  ⊕ Procedures
                         1,

    ⊕ Operators

                          ALTER TABLE Project Info
  ⊕ Queues
                             ADD CONSTRAINT Project_Info_PK PRIMARY KEY ( user_id, project_id ) ;
  ⊕ • Queues Tables
```

Figure 15: Creating Project_Info table

```
Name Null? Type
-----
USER_ID NOT NULL NUMBER
PROJECT_ID NOT NULL NUMBER
```

Figure 16: DESC Project_Info table

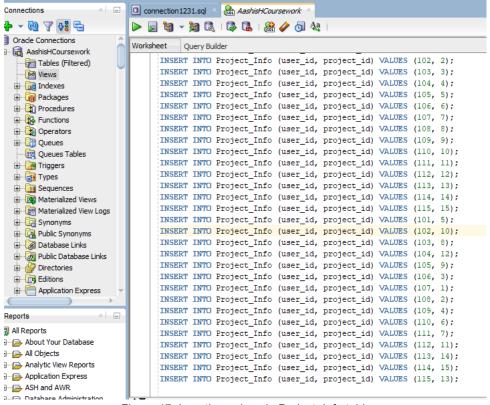


Figure 17: Inserting values in Project Info table

	USER_ID	
1	101	1
2	101	5
3	102	2
4	102	10
5	103	3
6	103	8
7	104	4
8	104	12
9	105	5
10	105	9
11	106	3
12	106	6
13	107	1
14	107	7
15	108	2
16	108	8
17	109	4
18	109	9
19	110	6
20	110	10
21	111	7
22	111	11
23	112	11
24	112	12
25	113	13
26	113	14
27	114	14
28	114	15
29	115	13
30	115	15

Figure 18: Showing Project_Info values

5.3.4 Task details Table:

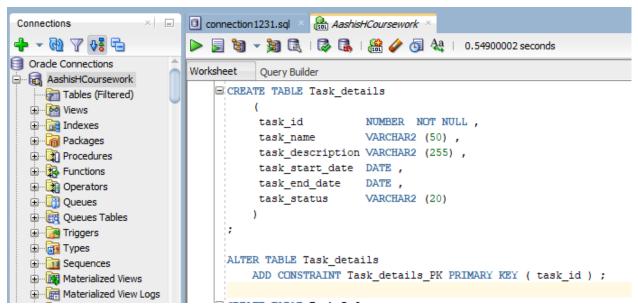


Figure 19: Inserting Values in Task_details table

Name	Nul	L?	Туре
TASK_ID	NOT	NULL	NUMBER
TASK_NAME			VARCHAR2 (50)
TASK_DESCRIPTION			VARCHAR2 (255)
TASK_START_DATE			DATE
TASK_END_DATE			DATE
TASK_STATUS			VARCHAR2 (20)

Figure 20: DESC Task_detailsTable

```
☐ connection1231.sql × AashisHCoursework ×
Worksheet Query Builder
        INSERT INTO Task details (task id, task name, task description, task start date, task end date, task status)
       VALUES (1, 'Student Registration', 'Create a module for student registrations with validation.', TO DATE ('2024-01-01', 'YYYY-MM-DD'), TO DATE ('2024-02-20', 'YYYY-MM-DD'), 'Completed');
       INSERT INTO Task details (task_id, task_name, task_description, task_start_date, task_end_date, task_status)

VALUES (2, 'Student Counseling Form', 'Design a form for student counseling with dynamic fields.', TO_DATE('2024-01-05', 'YYYY-MM-DD'), TO_DATE('2024-06-15', 'YYYY-MM-DD'), 'Ongoing');
       INSERT INTO Task_details (task_id, task_name, task_description, task_start_date, task_end_date, task_status)

VALUES (3, 'Biometric Registration', 'Implement biometric registration for attendance tracking.', TO_DATE('2024-03-10', 'YYYY-MM-DD'), TO_DATE('2024-03-20', 'YYYY-MM-DD'), 'Completed');
       INSERT INTO Task details (task id, task name, task description, task start date, task end date, task status)
       VALUES (4, 'Salary Calculation', 'Develop a salary calculation module with tax of
                                                                                                            mputation.', TO DATE('2024-05-01', 'YYYY-MM-DD'), TO DATE('2024-06-30', 'YYYY-MM-DD'), 'Ongoing');
        INSERT INTO Task details (task_id, task_name, task_description, task_start_date, task_end_date, task_status)
       VALUES (5, 'Library Book Tracking', 'Create a system to track borrowed books.', TO DATE('2024-06-10', 'YYYY-MM-DD'), TO DATE('2024-07-30', 'YYYY-MM-DD'), 'Ongoing');
       INSERT INTO Task_details (task_id, task_name, task_description, task_start_date, task_end_date, task_status)
VALUES (6, 'Inventory Stock Update', 'Automate stock updates in the inventory system.', TO_DATE('2024-02-15', 'YYYY-MM-DD'), TO_DATE('2024-03-15', 'YYYY-MM-DD'), 'Completed');
       INSERT INTO Task_details (task_id, task_name, task_description, task_start_date, task_end_date, task_status)

VALUES (7, 'User Role Management', 'Implement role-based access control.', TO_DATE('2024-04-01', 'YYYY-MM-DD'), TO_DATE('2024-05-01', 'YYYY-MM-DD'), 'Ongoing');
       INSERT INTO Task_details (task_id, task_name, task_description, task_start_date, task_end_date, task_status)
                                                'Setup regular backups for project data.', TO DATE('2024-05-15', 'YYYY-MM-DD'), TO DATE('2024-06-10', 'YYYY-MM-DD'), 'Completed');
                INTO Task_details (task_id, task_name, task_description, task_start_date, task_end_date, task_status)
                                                                                                             nent.', TO DATE('2024-07-01', 'YYYY-MM-DD'), TO DATE('2024-08-15', 'YYYY-MM-DD'), 'Ongoing');
       VALUES (9, 'Client Feedback Analysis', 'Analyze feedback from clients for impro
       INSERT INTO Task details (task_id, task_name, task_description, task_start_date, values (10, 'API Integration', 'Integrate external APIs for real-time updates.', TO_DATE('2024-03-01', 'YYYY-MM-DD'), TO_DATE('2024-04-10', 'YYYY-MM-DD'), 'Completed');
       INSERT INTO Task details (task_id, task_name, task_description, task_start_date, task_end_date, task_status)
VALUES (11, 'User Authentication', 'Develop secure login and authentication', 'D_DATE('2024-02-20', 'YYYY-MM-DD'), TO_DATE('2024-03-25', 'YYYY-MM-DD'), 'Completed');
       INSERT INTO Task_details (task_id, task_name, task_description, task_start_date, task_end_date, task_status)

VALUES (12. 'Notification System'. 'Create a notification system for task updates.', TO DATE('2024-03-10', 'YYYY-MM-DD'), TO DATE('2024-04-15', 'YYYY-MM-DD'), 'Ongoing');
            ERT INTO Task_details (task_id, task_name, task_description, task_start_date, task_end_date, task_status)
        VALUES (13, 'Beta Testing', 'Conduct beta testing for all modules.', TO DATE('2024-08-01', 'YYYY-MM-DD'), TO DATE('2024-09-15', 'YYYY-MM-DD'), 'Pending');
       INSERT INTO Task_details (task_id, task_name, task_description, task_start_date, task_end_date, task_status)
```

Figure 21: Inserting values in Task_details table

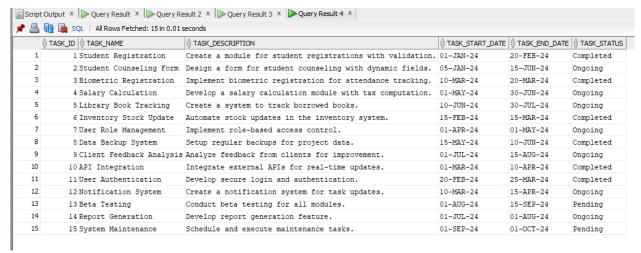


Figure 22: Showing values in Task_details values

5.3.5 Task_Info Table

```
connection 1231.sql × 🔐 AashisHCoursework ×
🕂 🛧 🐠 🛆 😘 🗗
                      Oracle Connections
                      Worksheet Query Builder
CREATE TABLE Task_Info
   Tables (Filtered)
  ± Wiews
                              user_id NUMBER NOT NULL ,
  task_id NUMBER NOT NULL ,
  🗓 🖟 Packages
                              project_id NUMBER NOT NULL
  ⊕ Procedures
  ⊕ 🚡 Functions
                          ;
  🗓 🛅 Operators
  🗓 📆 Queues
                          ALTER TABLE Task_Info
  ⊕ • Queues Tables
                              ADD CONSTRAINT Task_Info_PK PRIMARY KEY ( task_id, user_id, project_id ) ;
  🗓 🔐 Triggers
```

Figure 23: creating Task_Info table

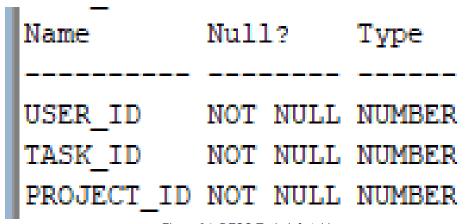


Figure 24: DESC Task_Info table

```
connection 1231.sql ... (St.) AashisHCoursework ...
Worksheet
         Query Builder
     INSERT INTO Task Info (user id, task id, project id) VALUES (101, 1, 1);
     INSERT INTO Task Info (user id, task id, project id) VALUES (102, 2, 1);
     INSERT INTO Task Info (user id, task id, project id) VALUES (103, 3, 2);
     INSERT INTO Task Info (user id, task id, project id) VALUES (104, 4, 2);
     INSERT INTO Task Info (user id, task id, project id) VALUES (105, 5, 3);
     INSERT INTO Task Info (user id, task id, project id) VALUES (106, 6, 3);
     INSERT INTO Task Info (user id, task id, project id) VALUES (107, 7, 4);
     INSERT INTO Task Info (user id, task id, project id) VALUES (108, 8, 4);
     INSERT INTO Task Info (user id, task id, project id) VALUES (109, 9, 5);
     INSERT INTO Task Info (user id, task id, project id) VALUES (110, 10, 5);
     INSERT INTO Task Info (user id, task id, project id) VALUES (111, 11, 6);
     INSERT INTO Task Info (user id, task id, project id) VALUES (112, 12, 6);
     INSERT INTO Task Info (user id, task id, project id) VALUES (113, 13, 7);
     INSERT INTO Task Info (user id, task id, project id) VALUES (114, 14, 7);
     INSERT INTO Task Info (user id, task id, project id) VALUES (115, 15, 8);
     INSERT INTO Task Info (user id, task id, project id) VALUES (101, 3, 2);
     INSERT INTO Task Info (user id, task id, project id) VALUES (102, 6, 3);
     INSERT INTO Task Info (user id, task id, project id) VALUES (103, 9, 5);
     INSERT INTO Task Info (user id, task id, project id) VALUES (104, 12, 6);
     INSERT INTO Task Info (user id, task id, project id) VALUES (105, 15, 8);
     INSERT INTO Task Info (user id, task id, project id) VALUES (106, 2, 1);
      INSERT INTO Task_Info (user_id, task_id, project_id) VALUES (107, 5, 3);
     INSERT INTO Task Info (user id, task id, project id) VALUES (108, 8, 4);
      INSERT INTO Task_Info (user_id, task_id, project_id) VALUES (109, 11, 6);
     INSERT INTO Task Info (user id, task id, project id) VALUES (110, 14, 7);
     INSERT INTO Task Info (user id, task id, project id) VALUES (111, 1, 1);
     INSERT INTO Task Info (user id, task id, project id) VALUES (112, 4, 2);
     INSERT INTO Task_Info (user_id, task_id, project_id) VALUES (113, 7, 4);
      INSERT INTO Task Info (user id, task id, project id) VALUES (114, 10, 5);
```

Figure 25: Inserting values in Task_Info Table;

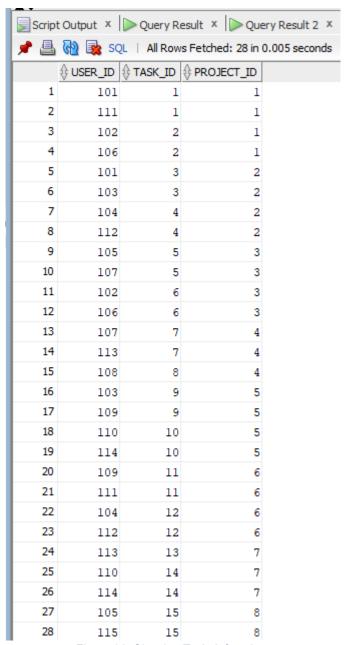


Figure 26: Showing Task_Info values

5.3.6 Sub_task_details Table

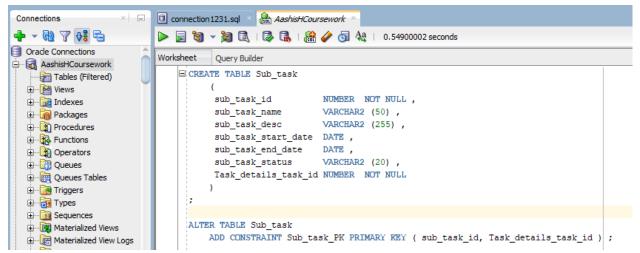


Figure 27: Creating Sub_task_details table

Figure 28: DESC Sub_task_details

```
connection 1231.sql × AashisHCoursework ×
Worksheet Query Builder
        INSERT INTO Sub_task (sub_task_id, sub_task_name, sub_task_desc, sub_task_start_date, sub_task_end_date, sub_task_status, Task_details_task_id)
VALUES (1, 'Design Login UI', 'Create the login page interface', TO_DATE('2024-01-02', 'YYYY-MM-DD'), TO_DATE('2024-01-10', 'YYYY-MM-DD'), 'Completed', 1);
        INSERT INTO Sub_task (sub_task_id, sub_task_name, sub_task_desc, sub_task_start_date, sub_task_end_date, sub_task_status, Task_details_task_id)
VALUES (2, 'Implement Login Backend', 'Code the backend for login', TO_DATE('2024-01-11', 'YYYY-MM-DD'), TO_DATE('2024-01-20', 'YYYY-MM-DD'), 'Completed', 1);
        INSERT INTO Sub_task (sub_task_id, sub_task_name, sub_task_desc, sub_task_start_date, sub_task_end_date, sub_task_status, Task_details_task_id)
VALUES (3, 'Design Registration UI', 'Create registration interface', TO_DATE('2024-01-05', 'YYYY-MM-DD'), TO_DATE('2024-01-15', 'YYYY-MM-DD'), 'Ongoing', 2);
        INSERT INTO Sub task (sub task id, sub task name, sub task desc, sub task start date, sub task end date, sub task status, Task details task id)
VALUES (4, 'Implement Registration Backend', 'Develop backend logic for registration', TO DATE('2024-01-16', 'YYYY-MM-DD'), TO DATE('2024-01-25', 'YYYY-MM-DD'), 'Pending', 2);
        INSERT INTO Sub_task (sub_task_id, sub_task_name, sub_task_desc, sub_task_start_date, sub_task_end_date, sub_task_status, Task_details_task_id)

VALUES (5, 'Create Biometric Module', 'Module for capturing biometric data', TO_DATE('2024-03-12', 'YYYY-MM-DD'), TO_DATE('2024-03-18', 'YYYY-MM-DD'), 'Completed', 3);
        INSERT INTO Sub_task (sub_task_id, sub_task_name, sub_task_desc, sub_task_start_date, sub_task_end_date, sub_task_status, Task_details_task_id)

VALUES (6, 'Test Biometric Integration', 'Ensure biometric module works', TO_DATE('2024-03-19', 'YYYY-MM-DD'), TO_DATE('2024-03-25', 'YYYY-MM-DD'), 'Completed', 3);
         INSERT INTO Sub_task (sub_task_id, sub_task_name, sub_task_desc, sub_task_start_date, sub_task_end_date, sub_task_status, Task_details_task_id)
         VALUES (7, 'Setup Payroll UI', 'Design payroll dashboard', TO DATE('2024-05-02', 'YYYY-MM-DD'), TO DATE('2024-05-10', 'YYYY-MM-DD'), 'Ongoing', 4);
         INSERT INTO Sub_task (sub_task_id, sub_task_name, sub_task_desc, sub_task_start_date, sub_task_end_date, sub_task_status, Task_details_task_id)
         VALUES (8, 'Develop Payroll Backend', 'Code payroll system backend', TO DATE('2024-05-11', 'YYYY-MM-DD'), TO DATE('2024-05-20'
         INSERT INTO Sub_task (sub_task_id, sub_task_name, sub_task_desc, sub_task_start_date, sub_task_end_date, sub_task_status, Task_details_task_id)
         VALUES (9, 'Setup Library DB', 'Design the library database schema', TO_DATE('2024-06-02', 'YYYY-MM-DD'), TO_DATE('2024-06-15', 'YYYY-MM-DD'), 'Completed', 5);
         INSERT INTO Sub task (sub task id, sub task name, sub task desc, sub task start date, sub task end date, sub task status, Task details task id)
         VALUES (10, 'Implement Library Search', 'Develop library search module', TO_DATE('2024-06-16', 'YYYY-MM-DD'), TO_DATE('2024-06-30', 'YYYY-MM-DD'), 'Ongoing', 5);
        INSERT INTO Sub_task (sub_task_id, sub_task_name, sub_task_desc, sub_task_start_date, sub_task_end_date, sub_task_status, Task_details_task_id)
VALUES (11, 'Inventory UI', 'Create inventory tracking interface', TO_DATE('2024-02-05', 'YYYY-MM-DD'), TO_DATE('2024-02-15', 'YYYY-MM-DD'), 'Co
        INSERT INTO Sub_task (sub_task_id, sub_task_name, sub_task_desc, sub_task_start_date, sub_task_end_date, sub_task_status, Task_details_task_id)
         VALUES (12, 'Inventory Backend', 'Develop backend for inventory', TO_DATE('2024-02-16', 'YYYY-MM-DD'), TO_DATE('2024-02-28',
        INSERT INTO Sub_task (sub_task_id, sub_task_name, sub_task_desc, sub_task_start_date, sub_task_end_date, sub_task_status, Task_details_task_id)
VALUES (13, 'User Feedback Form', 'Develop a feedback form for users', TO_DATE('2024-07-01', 'YYYY-MM-DD'), TO_DATE('2024-07-15', 'YYYY-MM-DD'), 'Pending', 7);
        INSERT INTO Sub_task (sub_task_id, sub_task_name, sub_task_desc, sub_task_start_date, sub_task_end_date, sub_task_status, Task_details_task_id)

VALUES (14. 'Implement Security Module'. 'Add_security measures'. TO DATE('2024-08-01'. 'YYYY-MM-DD'). TO DATE('2024-08-15'. 'YYYY-MM-DD'). 'Pending'. 7):
```

Figure 29: Inserting values in Sub_task_Info table

SUB SUB	_TASK_ID SUB_TASK_NAME		\$SUB_TASK_START_DATE	\$SUB_TASK_END_DATE		↑ TASK_DETAILS_TASK_ID
1	l Design Login UI	Create the login page interface	02-JAN-24	10-JAN-24	Completed	1
2	2 Implement Login Backend	Code the backend for login	11-JAN-24	20-JAN-24	Completed	1
3	3 Design Registration UI	Create registration interface	05-JAN-24	15-JAN-24	Ongoing	2
4	4 Implement Registration Backend	Develop backend logic for registration	16-JAN-24	25-JAN-24	Pending	2
5	5 Create Biometric Module	Module for capturing biometric data	12-MAR-24	18-MAR-24	Completed	3
6	6 Test Biometric Integration	Ensure biometric module works	19-MAR-24	25-MAR-24	Completed	3
7	7 Setup Payroll UI	Design payroll dashboard	02-MAY-24	10-MAY-24	Ongoing	4
8	8 Develop Payroll Backend	Code payroll system backend	11-MAY-24	20-MAY-24	Pending	4
9	9 Setup Library DB	Design the library database schema	02-JUN-24	15-JUN-24	Completed	5
10	10 Implement Library Search	Develop library search module	16-JUN-24	30-JUN-24	Ongoing	5
11	11 Inventory UI	Create inventory tracking interface	05-FEB-24	15-FEB-24	Completed	6
12	12 Inventory Backend	Develop backend for inventory	16-FEB-24	28-FEB-24	Ongoing	6
13	13 User Feedback Form	Develop a feedback form for users	01-JUL-24	15-JUL-24	Pending	7
14	14 Implement Security Module	Add security measures	01-AUG-24	15-AUG-24	Pending	7
15	15 Create Analytics Dashboard	Dashboard for project insights	01-SEP-24	20-SEP-24	Ongoing	8

Figure 30: Showing Sub_task_Info Values

5.3.7 Milestone_details Table

Figure 31: Creating Milestone_details table

Name	Null	l?	Type
MILESTONE_ID	NOT	NULL	NUMBER
MILESTONE_NAME			VARCHAR2 (50)
MILESTONE_DESCRIPTION			VARCHAR2 (255)
MILESTONE_START_DATE			DATE
MILESTONE_END_DATE			DATE
PROJECT_DETAILS_PROJECT_ID	NOT	${\tt NULL}$	NUMBER

Figure 32: DESC Milestone_details table

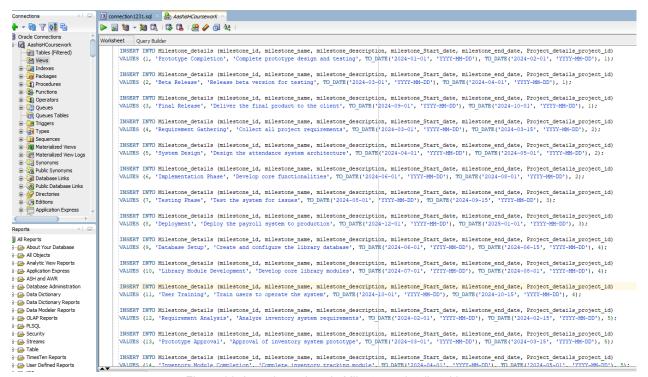


Figure 33: Inserting values in Milestone_details table

					♦ PROJECT_DETAILS_PROJECT_ID
1	1 Prototype Completion	Complete prototype design and testing	01-JAN-24	01-FEB-24	1
2	2 Beta Release	Release beta version for testing	01-MAR-24	01-APR-24	1
3	3 Final Release	Deliver the final product to the client	01-SEP-24	01-OCT-24	1
4	4 Requirement Gathering	Collect all project requirements	01-MAR-24	15-MAR-24	2
5	5 System Design	Design the attendance system architecture	01-APR-24	01-MAY-24	2
6	6 Implementation Phase	Develop core functionalities	01-JUN-24	01-AUG-24	2
7	7 Testing Phase	Test the system for issues	01-AUG-24	15-SEP-24	3
8	8 Deployment	Deploy the payroll system to production	01-DEC-24	01-JAN-25	3
9	9 Database Setup	Create and configure the library database	01-JUN-24	15-JUN-24	4
10	10 Library Module Development	Develop core library modules	01-JUL-24	01-AUG-24	4
11	11 User Training	Train users to operate the system	01-OCT-24	15-OCT-24	4
12	12 Requirement Analysis	Analyze inventory system requirements	01-FEB-24	15-FEB-24	5
13	13 Prototype Approval	Approval of inventory system prototype	01-MAR-24	15-MAR-24	5
14	14 Inventory Module Completion	Complete inventory tracking module	01-APR-24	01-MAY-24	5
15	15 Final Review and Handover	Review and handover inventory system	01-JUL-24	01-AUG-24	5

Figure 34: Showing Milestone_details values

6 Basic Web Forms

6.1 Task Tracking Dashboard

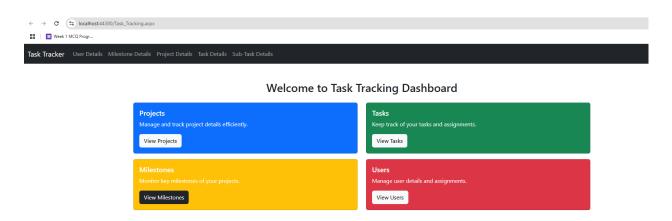


Figure 35: Main Dashboard

6.2 User_details Web Form

Week 1 MCQ Progr...

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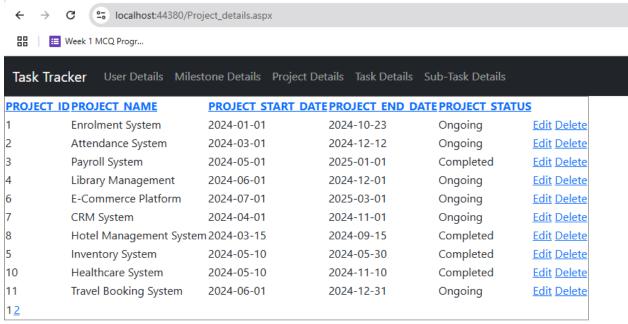
Task 1	Tracker User De	etails Milestone Details Pro	ject Details Task Details	Sub-Task Details	
USER II	USER NAME	<u>EMAIL</u>	ADDRESS	CONTACT	
101	Aashish Neupane	aashishneupane@gmail.com	Salakpur, Morang	+9779827354879	Edit Delete
102	Aayush Bhattarai	aayushbhattarai7@gmail.com	ı Itahari, Sunsari	+9779843276450	Edit Delete
103	Aashok Katwal	ashokkatwal@gmail.com	Taharara, Sunsari	+9779810324539	Edit Delete
104	Prajwal Khadka	prajwalkhadka@gmail.com	Neta Chowk, Udhayapur	+97748793527	Edit Delete
105	Presab Khadka	khadka Presab 12@gmail.com	Santi Chowk, Sunsari	+97723458976	Edit Delete
106	Aayush Adhikari	adhikariaayush@gmail.com	Itahari, Sunsari	+97723454564	Edit Delete
107	Alon Rai	raival@gmail.com	Biratchowk, Morang	+97745234568	Edit Delete
108	Nikam	nikam123@gmail.com	Rajdhami Chowk, Sunsari	+9772355433	Edit Delete
109	Kamesh Chaudary	kmaesh00@gmail.com	Chaudary Chowk, Sunsari	+977234534586	Edit Delete
110	Anir Thapa	aneer@gmail.com	Dharan, Sunsari	+977234556664	Edit Delete
1 <u>2</u>					

Add New User

User ID:	
User Name:	
Email:	
Address:	
Contact:	
Insert	ncel

Figure 36: User_details Web Form

6.3 Project_details Web Form



Add New Project

Project ID:	
Project Name:	
Start Date:	
End Date:	
Status:	
Insert Cance	el

Figure 37: Project_details Web Form

6.4 Task_details Web Form

Task Tracker User Details Milestone Details Project Details Sub-Task Details

Task Details

TASI	K ID Task Name	Description	Start Date End Date	<u>Status</u>
Edit Delete 1	Student Registration	Create a module for student registrations with validation.	2024-01-012024-02-2	OCompleted
Edit Delete 2	Student Counseling Forn	n Design a form for student counseling with dynamic fields.	2024-01-05 2024-06-1	5 Ongoing
Edit Delete 3	Biometric Registration	Implement biometric registration for attendance tracking.	2024-03-102024-03-2	0 Completed
Edit Delete 4	Salary Calculation	Develop a salary calculation module with tax computation	. 2024-05-01 2024-06-3	0 Ongoing
Edit Delete 5	Library Book Tracking	Create a system to track borrowed books.	2024-06-102024-07-3	0 Ongoing
Edit Delete 6	Inventory Stock Update	Automate stock updates in the inventory system.	2024-02-15 2024-03-1	5 Completed
Edit Delete 7	User Role Management	Implement role-based access control.	2024-04-012024-05-0	1 Ongoing
Edit Delete 8	Data Backup System	Setup regular backups for project data.	2024-05-152024-06-1	0 Completed
Edit Delete 10	API Integration	Integrate external APIs for real-time updates.	2024-03-012024-04-1	0 Completed
Edit Delete 11	User Authentication	Develop secure login and authentication.	2024-02-202024-03-2	5 Completed
1 <u>2</u>				

Add New Task

Task ID:		
Task Nam	e:	
Descriptio	n:	
Start Date	:	
End Date:		
Status:		
Insert	Cancel	

Figure 38: Task_details Web Form

6.5 Sub_task_details Web Form

Task Tracker User Details Milestone Details Project Details Task Details Sub-Task Details

Sub Task Details

Sub Task	ID Sub Task Name	<u>Description</u>	Start Date End Date Stat	us <u>Task ID</u>
Edit Delete 1	Design Login UI	Create the login page interface	2024-01-022024-01-10Com	pleted 1
Edit Delete 2	Implement Login Backend	Code the backend for login	2024-01-112024-01-20Com	pleted 1
Edit Delete 3	Design Registration UI	Create registration interface	2024-01-05 2024-01-15 Ong	oing 2
Edit Delete 4	Implement Registration Backe	nd Develop backend logic for registration	n 2024-01-16 2024-01-25 Pend	ding 2
Edit Delete 5	Create Biometric Module	Module for capturing biometric data	2024-03-122024-03-18 Com	pleted 3
Edit Delete 6	Test Biometric Integration	Ensure biometric module works	2024-03-192024-03-25Com	pleted 3
Edit Delete 7	Setup Payroll UI	Design payroll dashboard	2024-05-022024-05-10Ong	oing 4
Edit Delete8	Develop Payroll Backend	Code payroll system backend	2024-05-112024-05-20 Pend	ding 4
Edit Delete 9	Setup Library DB	Design the library database schema	2024-06-022024-06-15 Com	pleted 5
Edit Delete 10	Implement Library Search	Develop library search module	2024-06-162024-06-30 Ong	oing 5
1 <u>2</u>				

Add New Sub Task

Sub Task ID:	
Sub Task Name:	
Description:	
Start Date:	
End Date:	
Status:	
Task ID:	
Insert Cancel	

Figure 39: Sub_task_details Web Form

6.6 Milestone_details Web Form

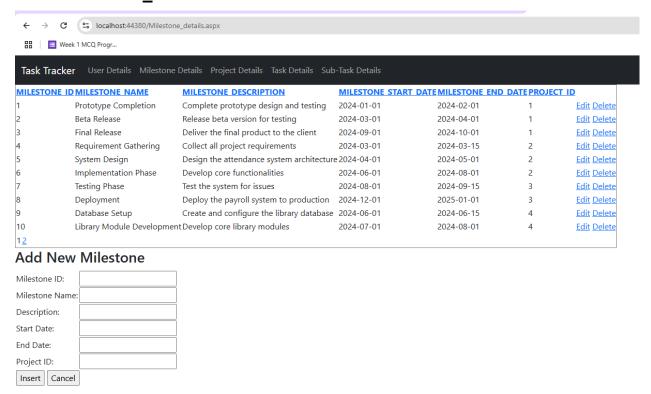


Figure 40: Milestone_Details Web Form

7 Complex Web Form

7.1 Updated Dashboard

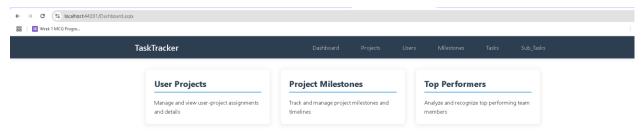


Figure 41: Updated Dashboard

7.2 User Project (for any user, show details of the user and the details of all the projects that he/she has been working or has worked on.

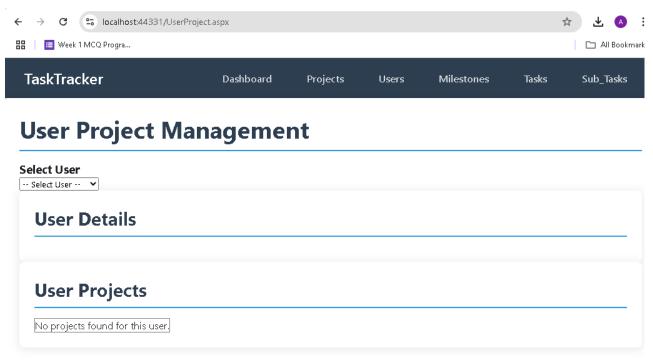
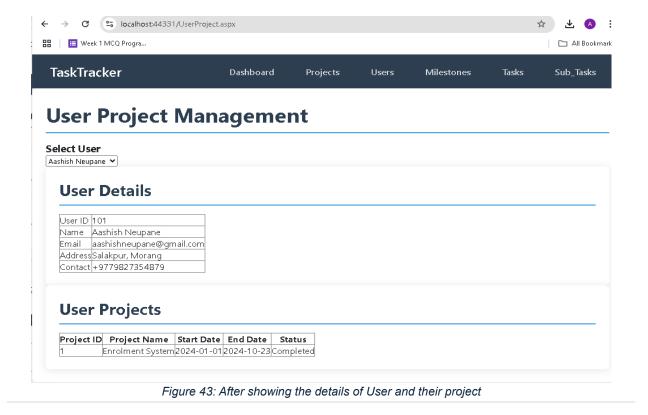


Figure 42: Before showing details of user and their associated Project



41 | Page

7.3 Project Milestone (For any Project, show the detail of the project with all the milestone of the project)

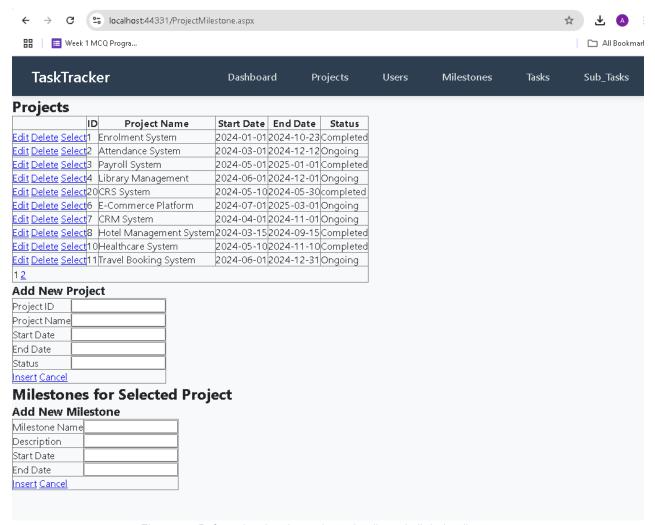


Figure 44: Before showing the projects details and all their milestones

TaskTracker	Dash	board Pr	rojects Use	rs Mil	estones	Tasks
ojects						
ID Project N	ame Start D	ate End Date	Status			
: <u>Delete Select</u> 1 Enrolment Syste	m 2024-01	-01 2024-10-23	Completed			
Delete Select 2 Attendance Syste		3-01 2024-12-12				
Delete Select 3 Payroll System	2024-05	-01 2025-01-01	Completed			
Delete Select Library Manager	ment 2024-06	5-01 2024-12-01	Ongoing			
<u>: Delete Select</u> 20 CRS System	2024-05	<u>-10</u> 2024-05-30	completed			
<u>: Delete Select</u> 6 E-Commerce Pla	atform 2024-07	⁷ -01 2025-03-01	Ongoing			
Delete Select 7 CRM System	2024-04	1-01 2024-11-01	Ongoing			
<u>: Delete Select</u> 8 Hotel Managem	ent System 2024-03	3-15 2024-09-15	Completed			
<u>t Delete Select</u> 10Healthcare Syste	em 2024-05	5-10 <mark>2024-11-1</mark> 0	Completed			
<u>t Delete Select</u> 11 Travel Booking S	System 2024-06	5-01 2024-12-31	Ongoing			
d New Project						
ject ID						
ject Name						
t Date						
Doto						
Date						
ıs						
t <u>Cancel</u>	d Project					
tus ert Cancel		scription	Start Dat	e End Date	Project ID	
us irt Cancel ilestones for Selecte ID Name	Des			e End Date	_	
rt Cancel lestones for Selecte D Name Delete 4 Requirement Gathering	Des gCollect all project r	equirements		1 2024-03-15	2	
us Int Cancel ID Name Delete4 Requirement Gathering Delete5 System Design	Des gCollect all project r Design the attenda	equirements ance system arch	2024-03-0 nitecture 2024-04-0	1 2024-03-15	2	
rit Cancel ilestones for Selecte D Name Delete4 Requirement Gathering Delete5 System Design Delete6 Implementation Phase	Des gCollect all project r Design the attenda	equirements ance system arch	2024-03-0 nitecture 2024-04-0	12024-03-15 12024-05-01	2	
us Int Cancel ID Name Delete 4 Requirement Gathering Delete 5 System Design Delete 6 Implementation Phase d New Milestone	Des gCollect all project r Design the attenda	equirements ance system arch	2024-03-0 nitecture 2024-04-0	12024-03-15 12024-05-01	2	
us Introduction in the state of the state o	Des gCollect all project r Design the attenda	equirements ance system arch	2024-03-0 nitecture 2024-04-0	12024-03-15 12024-05-01	2	
rt Cancel ID Name Delete4 Requirement Gathering Delete5 System Design Delete6 Implementation Phase d New Milestone estone Name cription	Des gCollect all project r Design the attenda	equirements ance system arch	2024-03-0 nitecture 2024-04-0	12024-03-15 12024-05-01	2	
ilestones for Selecte ID Name Delete4 Requirement Gathering Delete5 System Design Delete6 Implementation Phase d New Milestone estone Name ccription t Date	Des gCollect all project r Design the attenda	equirements ance system arch	2024-03-0 nitecture 2024-04-0	12024-03-15 12024-05-01	2	
ilestones for Selecte ilestones for Selecte iD Name t Delete4 Requirement Gathering t Delete5 System Design t Delete6 Implementation Phase id New Milestone estone Name escription rt Date il Date ert Cancel	Des gCollect all project r Design the attenda	equirements ance system arch	2024-03-0 nitecture 2024-04-0	12024-03-15 12024-05-01	2	

Figure 45: After choosing the Project and output as milestone

7.4 Top Performer (for any project, show the details of top 3 user who has done the most task).

NOTE: Any pending task won't be counted as task done.

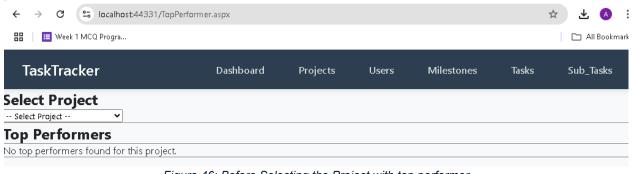


Figure 46: Before Selecting the Project with top performer

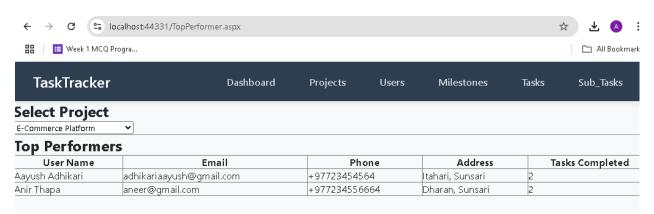


Figure 47: After selecting the Project with top performer

8 Conclusion

The Basic and Complex Web form required for the project is successfully finished. Also, the Dashboard required for the Task Tracking System is also done as shown in figure above in the dashboard section. So, the remaining UI components designs will be finished and will be finalized and included the final submission

9 References

- Margaret Rouse, J. V. (2024, december 22). *techtarget*. Retrieved from techtarget.com: https://www.techtarget.com/searchdatamanagement/definition/normalization
- Mondal, T. (2014). Entity search: A New Search Paradigm. *Tanmay Mondal,MSLIS Student,DRTC*, 4.
- Soni, D. (2024, december 21). *scaler*. Retrieved from scaler.com: https://www.scaler.com/topics/types-of-relationship-in-dbms/

Appendix

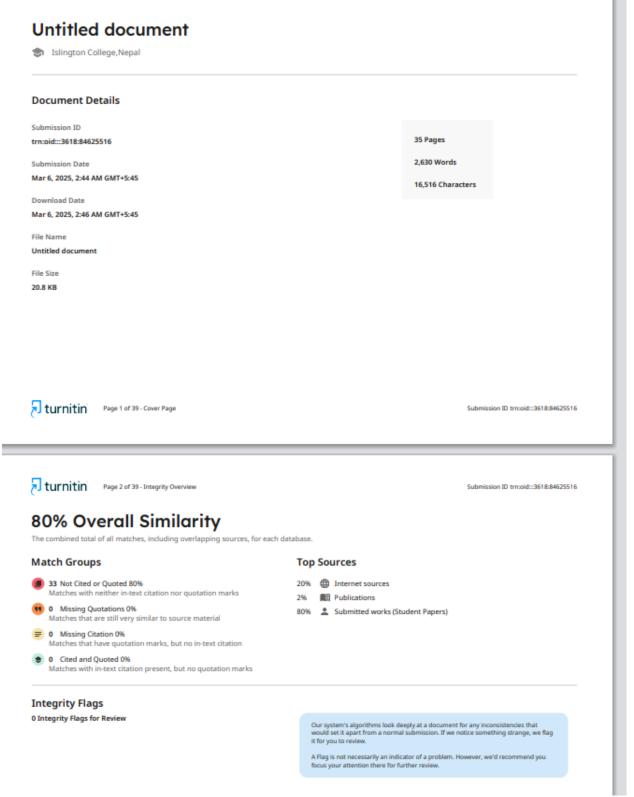


Figure 48: Similarity Report