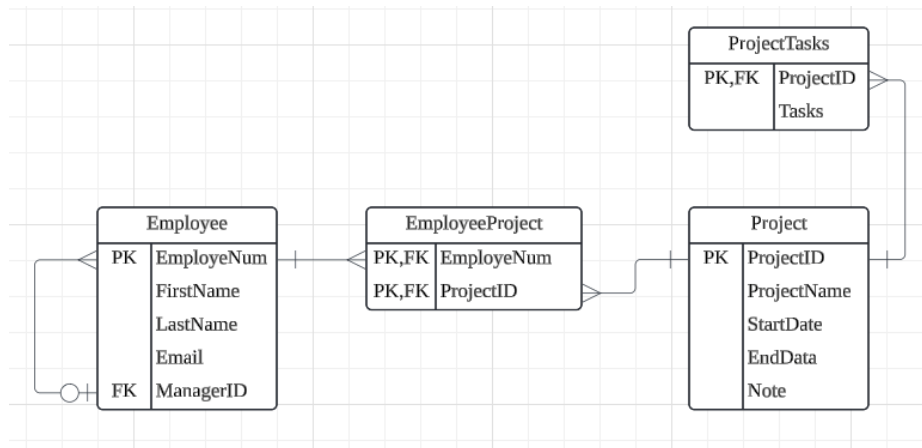


MGIS320 Database Management – Prof. Bui

Assignment #2: Creating Physical Database

1



2

```

DROP DATABASE IF EXISTS Yilin_Jiang_Assignment3;
CREATE DATABASE Yilin_Jiang_Assignment3;
USE Yilin_Jiang_Assignment3;

CREATE TABLE Employee (
    EmployeeNum INT NOT NULL AUTO_INCREMENT,
    FirstName VARCHAR(255) NOT NULL,
    LastName VARCHAR(255) NOT NULL,
    Email VARCHAR(255) NOT NULL,
    ManagerID INT,
    PRIMARY KEY (EmployeeNum),
    FOREIGN KEY (ManagerID) REFERENCES Employee(EmployeeNum)
);

CREATE TABLE Project (
    ProjectID INT AUTO_INCREMENT PRIMARY KEY,
    ProjectName VARCHAR(255) NOT NULL,
    StartDate DATE,

```

2

```
        EndDate DATE,
        Note TEXT
    );

CREATE TABLE EmployeeProject (
    EmployeeNum INT,
    ProjectID INT,
    PRIMARY KEY (EmployeeNum, ProjectID),
    FOREIGN KEY (EmployeeNum) REFERENCES Employee(Employee
eNum),
    FOREIGN KEY (ProjectID) REFERENCES Project(ProjectID)
);

CREATE TABLE ProjectTask (
    ProjectID INT NOT NULL,
    Task VARCHAR(255),
    PRIMARY KEY (ProjectID, Task),
    FOREIGN KEY (ProjectID) REFERENCES Project(ProjectID)
);

-- Insert sample records into Employee
INSERT INTO Employee (FirstName, LastName, Email, Manager
ID) VALUES
('Yifan', 'Zhu', 'yz5745@rit.edu', NULL),
('Yilin', 'Jiang', 'yj1114@rit.edu', NULL),
('Alice', 'Johnson', 'alice.johnson@example.com', 1),
('Bob', 'Williams', 'bob.williams@example.com', 1),
('Chat', 'GPT', 'chatgpt@openai.com', 2);

-- Insert sample records into Project
INSERT INTO Project (ProjectName, StartDate, EndDate, Not
e) VALUES
('Project Alpha', '2023-01-01', '2023-06-01', 'Completed
'),
('Project Beta', '2023-03-01', '2023-09-01', 'Ongoing'),
('Project Gamma', '2023-05-01', '2023-12-01', 'Ongoing'),
('Project Delta', '2024-07-01', '2025-01-01', 'Planned'),
('Project Epsilon', '2024-09-01', '2025-03-01', 'Planned
');

-- Insert sample records into EmployeeProject
INSERT INTO EmployeeProject (EmployeeNum, ProjectID) VALU
ES
(1, 1),
(2, 2),
```

```
(3, 3),
(4, 4),
(5, 5);
```

```
-- Insert sample records into ProjectTask
INSERT INTO ProjectTask (ProjectID, Task) VALUES
(1, 'Task A'),
(1, 'Task B'),
(2, 'Task C'),
(3, 'Task D'),
(4, 'Task E');
```

3

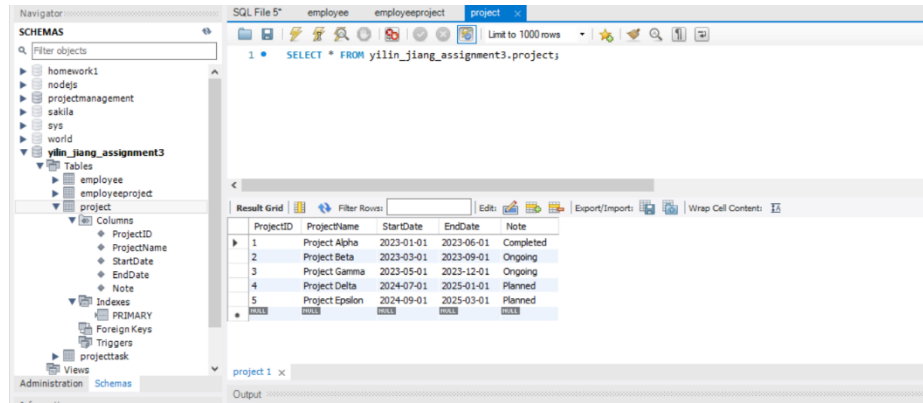
The screenshot shows the SQL Developer interface. On the left, the 'Navigator' pane displays the schema 'yilin_jiang_assignment3' with a table 'employee'. The table's columns are listed: EmployeeNum, FirstName, LastName, Email, and ManagerID. The 'Columns' tab is selected, showing the data for the 'employee' table.

EmployeeNum	FirstName	LastName	Email	ManagerID
1	Yifan	Zhu	yz5745@nit.edu	NULL
2	Yifan	Jiang	yj1114@nit.edu	NULL
3	Alice	Johnson	alice.johnson@example.com	1
4	Bob	Williams	bob.williams@example.com	1
5	Chat	GPT	chatgpt@openai.com	2

The screenshot shows the SQL Developer interface. On the left, the 'Navigator' pane displays the schema 'yilin_jiang_assignment3' with a table 'employeeproject'. The table's columns are listed: EmployeeNum and ProjectID. The 'Columns' tab is selected, showing the data for the 'employeeproject' table.

EmployeeNum	ProjectID
1	1
2	2
3	3
4	4
5	5

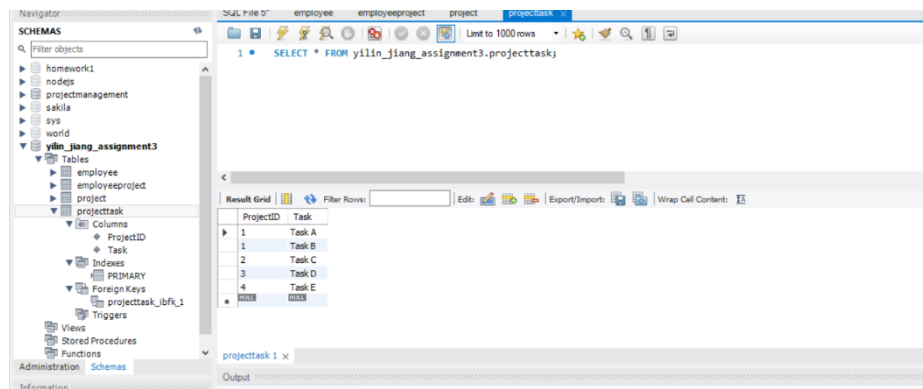
4



SQL File 5* employee employeeproject project

```
1 • SELECT * FROM yilin_jiang_assignment3.project;
```

ProjectID	ProjectName	StartDate	EndDate	Note
1	Project Alpha	2023-01-01	2023-06-01	Completed
2	Project Beta	2023-03-01	2023-09-01	Ongoing
3	Project Gamma	2023-05-01	2023-12-01	Ongoing
4	Project Delta	2024-07-01	2025-01-01	Planned
5	Project Epsilon	2024-09-01	2025-03-01	Planned

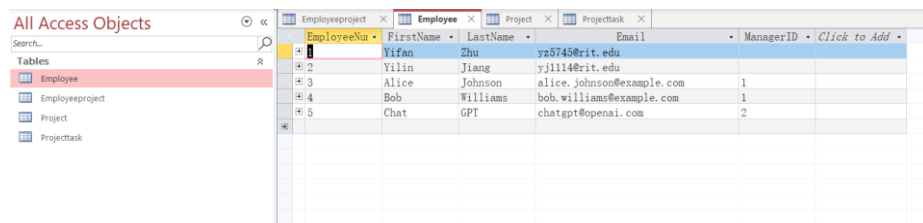


SQL File 5* employee employeeproject project projecttask

```
1 • SELECT * FROM yilin_jiang_assignment3.projecttask;
```

ProjectID	Task
1	Task A
2	Task B
3	Task C
4	Task D
5	Task E

4



All Access Objects

Search...

Tables

- Employee
- Employeeproject
- Project
- Projecttask

EmployeeID	FirstName	LastName	Email	ManagerID
1	Yifan	Zhu	yz5745@rit.edu	
2	Yilin	Jiang	yil114@rit.edu	
3	Alice	Johnson	alice.johnson@example.com	1
4	Bob	Williams	bob.williams@example.com	1
5	Chat	GPT	chatgpt@openai.com	2

All Access Objects

Search...

Tables

- Employee
- Employeeproject**
- Project
- Projecttask

EmployeeNum	ProjectID	Click to Add
1	1	
2	2	
3	3	
4	4	
5	5	
*		

All Access Objects

Search...

Tables

- Employee
- Employeeproject
- Project**
- Projecttask

ProjectID	ProjectName	StartDate	EndDate	Note	Click to Add
1	Project Alpha	1/1/2023	1/6/2023	Completed	
2	Project Beta	1/3/2023	1/9/2023	Ongoing	
3	Project Gamma	1/5/2023	1/12/2023	Ongoing	
4	Project Delta	1/7/2024	1/1/2025	Planned	
5	Project Epsilon	1/9/2024	1/3/2025	Planned	
*					

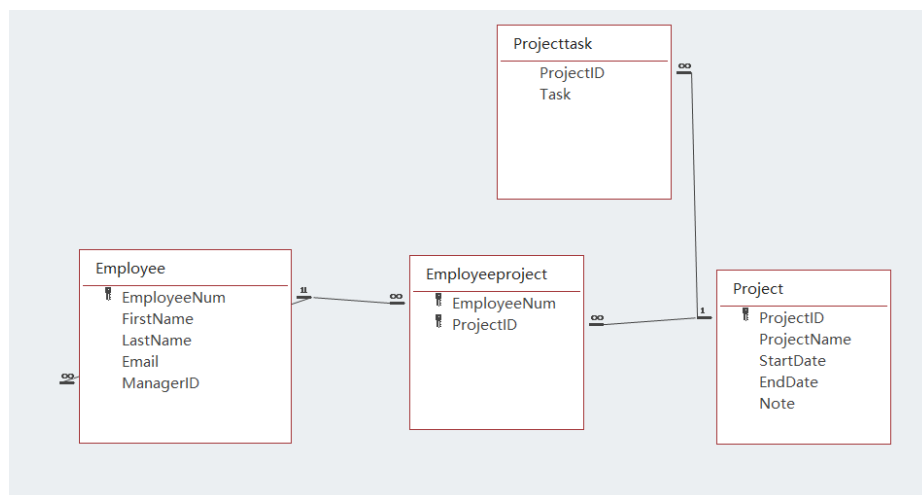
All Access Objects

Search...

Tables

- Employee
- Employeeproject
- Project
- Projecttask**

ProjectID	Task
1	Task A
2	Task B
3	Task C
4	Task D
5	Task E
*	



5

Team member name	% Contribution	Activities
Jiang Yilin	50	ERD, MySQL Code
Zhu Yifan	50	MySQL Code, Access