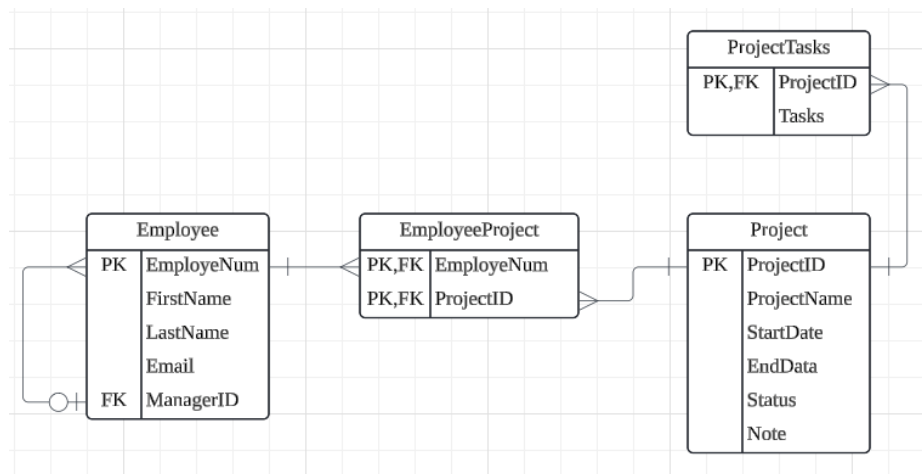


MGIS320 Database Management – Prof. Bui

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 (Employee
Num)
);

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

```

2

```
        StartDate DATE,
        EndDate DATE,
        Status TEXT,
        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)
);

USE Yilin_Jiang_Assignment3;

-- Insert sample records into Employee
INSERT INTO Employee (EmployeeNum, FirstName, LastName, Em
ail, ManagerID) VALUES
(1, 'Yifan', 'Zhu', 'yz5745@rit.edu', NULL),
(2, 'Yilin', 'Jiang', 'yj1114@rit.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);

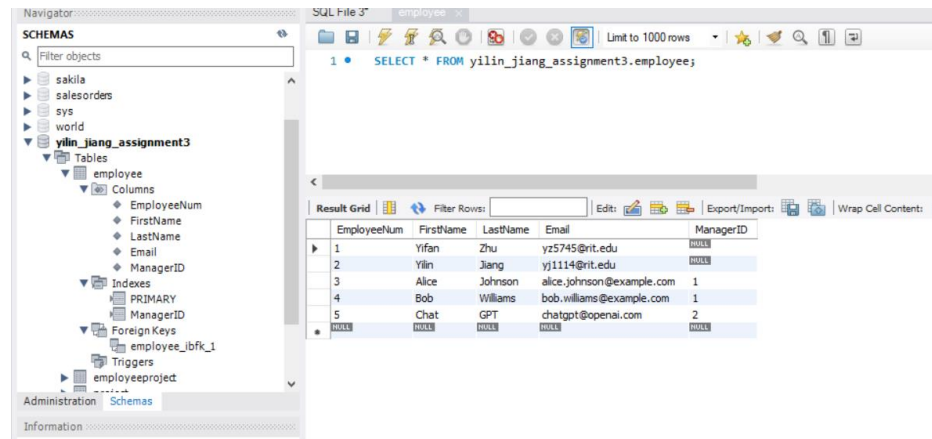
-- Insert sample records into Project
INSERT INTO Project (ProjectID, ProjectName, StartDate, En
dDate, Status, Note) VALUES
(1, 'Project Alpha', '2023-01-01', '2023-06-01', 'Complete
d', 'cost 5 months'),
(2, 'Project Beta', '2023-03-01', '2023-09-01', 'Ongoing',
'cost 6 months'),
(3, 'Project Gamma', '2023-05-01', '2023-12-01', 'Ongoing
', 'cost 7 months'),
(4, 'Project Delta', '2024-07-01', '2025-01-01', 'Planned
', 'cost 6 months'),
```

```
(5, 'Project Epsilon', '2024-09-01', '2025-03-01', 'Planned', 'cost 7 months');
```

```
-- Insert sample records into EmployeeProject
INSERT INTO EmployeeProject (EmployeeNum, ProjectID) VALUES
(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 a SQL database interface with a 'Schemas' pane on the left and a 'Result Grid' on the right. The 'Schemas' pane shows a database named 'yilin_jiang_assignment3' with a table 'employee'. The 'Result Grid' displays the following data:

EmployeeNum	FirstName	LastName	Email	ManagerID
1	Yifan	Zhu	yz5745@rit.edu	NULL
2	Yilin	Jiang	yj1114@rit.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

Navigator

Filter objects

Schemas

- homework1
- nodes
- projectmanagement
- sales
- salesorders
- sys
- world
- ylm_jiang_assignment3
 - employee
 - employeeproject
 - Columns
 - EmployeeNum
 - ProjectID
 - Indexes
 - PRIMARY
 - ProjectID
 - Foreign Keys
 - employeeproject_ibfk_1
 - employeeproject_ibfk_2
 - Triggers
 - project
 - projecttask
 - Views
 - Stored Procedures
 - Functions

SQL File 2

employee

Limit to 1000 rows

1 • SELECT * FROM yilm_jiang_assignment3.employeeproject;

Result Grid

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

Apply Revert

Navigator

Filter objects

Schemas

- homework1
- nodes
- projectmanagement
- sales
- salesorders
- sys
- world
- ylm_jiang_assignment3
 - employee
 - employeeproject
 - project
 - Columns
 - ProjectID
 - ProjectName
 - StartDate
 - EndDate
 - Status
 - Note
 - Indexes
 - PRIMARY
 - Foreign Keys
 - Triggers
 - projecttask
 - Views
 - Stored Procedures

SQL File 2

employee employeeproject project

Limit to 1000 rows

1 • SELECT * FROM yilm_jiang_assignment3.project;

Result Grid

ProjectID	ProjectName	StartDate	EndDate	Status	Note
1	Project Alpha	2023-01-01	2023-06-01	Completed	cost 5 months
2	Project Beta	2023-03-01	2023-09-01	Ongoing	cost 6 months
3	Project Gamma	2023-05-01	2023-12-01	Ongoing	cost 7 months
4	Project Delta	2024-07-01	2025-01-01	Planned	cost 6 months
5	Project Epsilon	2024-09-01	2025-03-01	Planned	cost 7 months

project 1 x

Apply Revert

Navigator

Filter objects

Schemas

- homework1
- nodes
- projectmanagement
- sales
- salesorders
- sys
- world
- ylm_jiang_assignment3
 - employee
 - employeeproject
 - project
 - projecttask
 - Columns
 - ProjectID
 - Task
 - Indexes
 - PRIMARY
 - projecttask_ibfk_1
 - Foreign Keys
 - Triggers
 - Views
 - Stored Procedures
 - Functions

SQL File 2

employee employeeproject project projecttask

Limit to 1000 rows

1 • SELECT * FROM yilm_jiang_assignment3.projecttask;

Result Grid

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

projecttask 1 x

Apply Revert

4

All Access Objects

Search...

Tables

- Employee
- Employeeproject
- Project
- Projecttask

EmployeeNum	FirstName	LastName	Email	ManagerID	Click to Add
1	Yifan	Zhu	yz5745@rit.edu		
2	Yilin	Jiang	yj1114@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 Obj...

Search...

Tables

- Employee
- Employeeproject
- Project
- Projecttask

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

All Access Objects

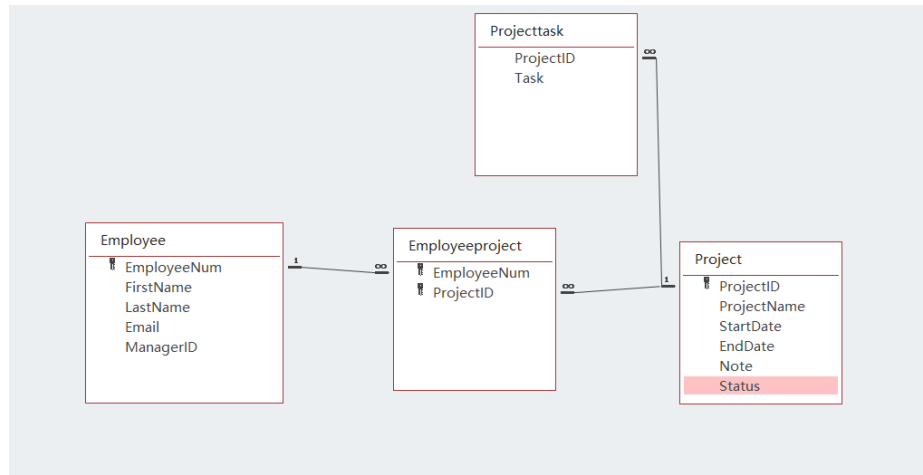
Search...

Tables

- Employee
- Employeeproject
- Project
- Projecttask

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

6



5

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