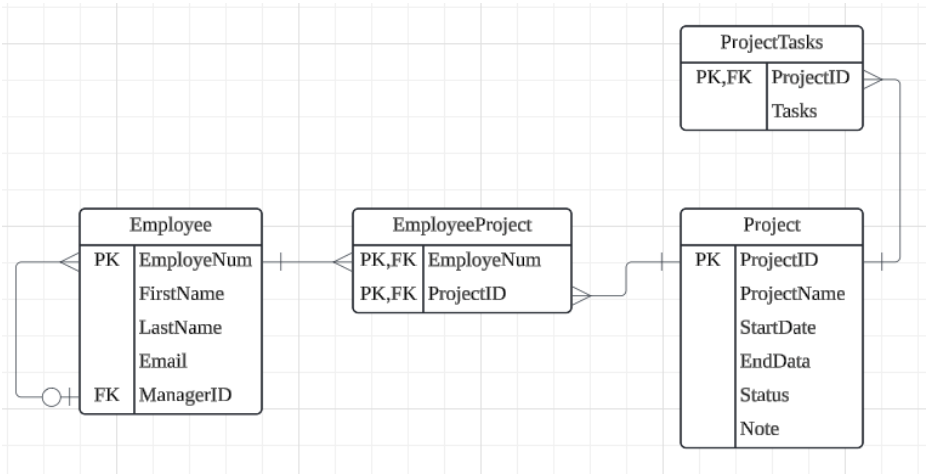
MGIS320 Database Management – Prof. Bui

Assignment #2: Creating Physical Database

1



2

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

CREATE TABLE EmployeeProject (
    EmployeeNum INT,
    ProjectID INT,
    PRIMARY KEY (EmployeeNum, ProjectID),
    FOREIGN KEY (EmployeeNum) REFERENCES Employee(Employe
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'),
```

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

-- 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');
```
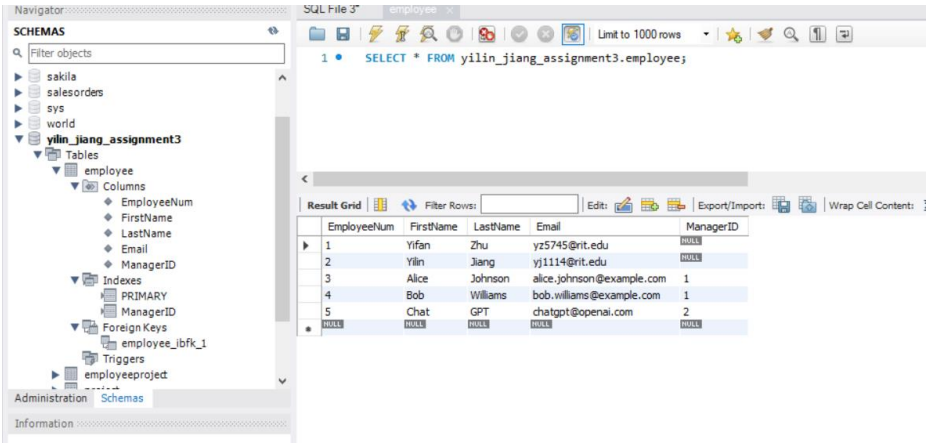

3



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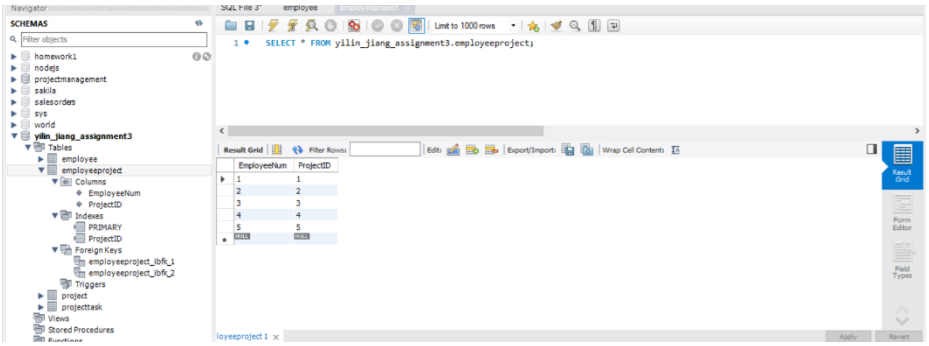
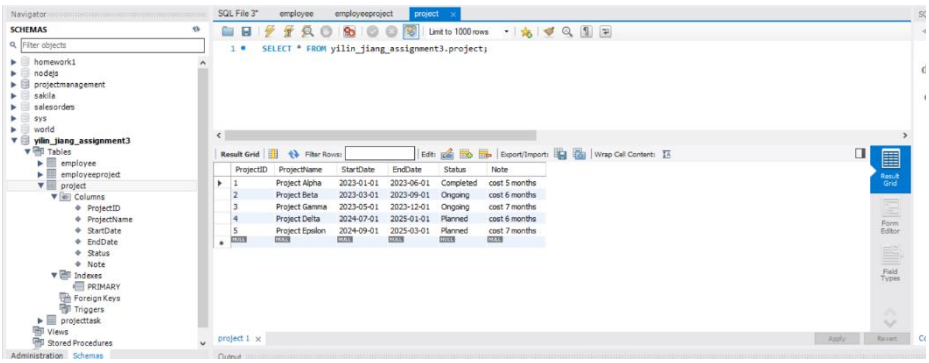
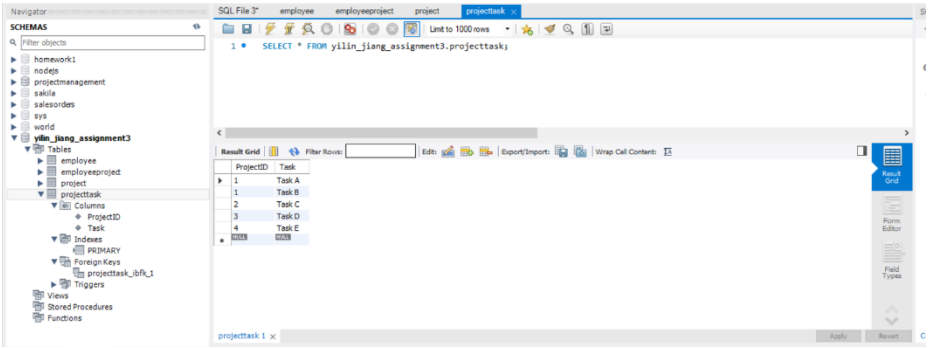
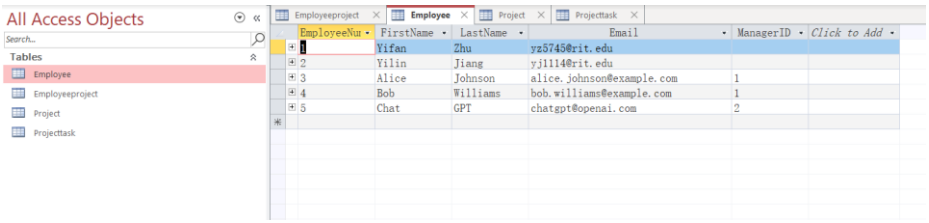
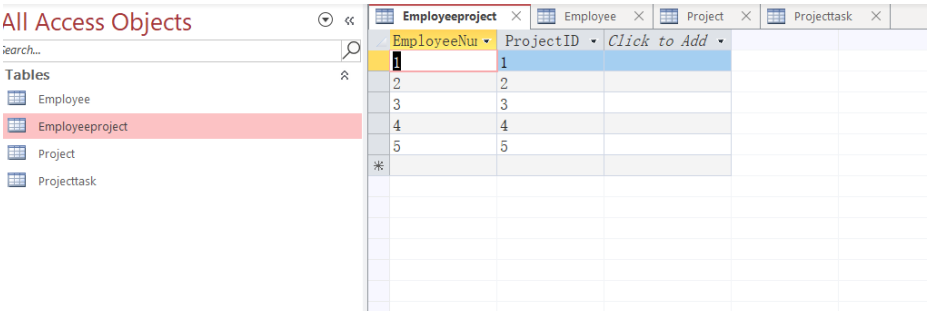

SELECT * FROM yilin_jiang_assignment3.employeeeproject;
EmployeeNum ProjectID
1 1
2 2
3 3
4 4
5 5

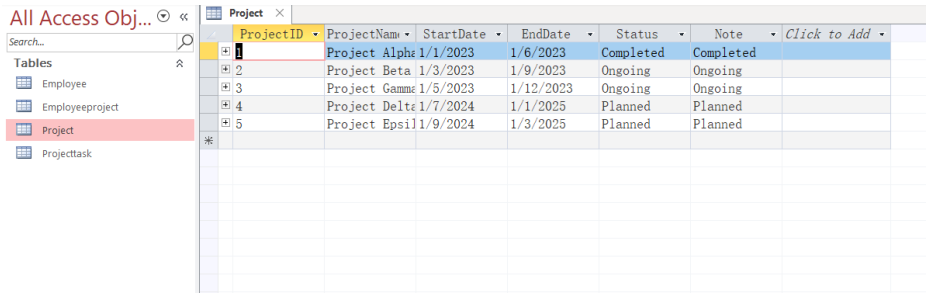

SELECT * FROM yilin_jiang_assignment3.project;
ProjectID ProjectName StartDate EndDate Status Note
1 Project Alpha 2023-01-01 2023-06-01 Completed cost 5 months
2 Project Beta 2023-03-01 2023-09-01 Ongoing cost 6 months
3 Project Gamma 2023-05-01 2023-12-01 Ongoing cost 7 months
4 Project Delta 2024-07-01 2025-01-01 Planned cost 6 months
5 Project Epsilon 2024-09-01 2025-03-01 Planned cost 7 months

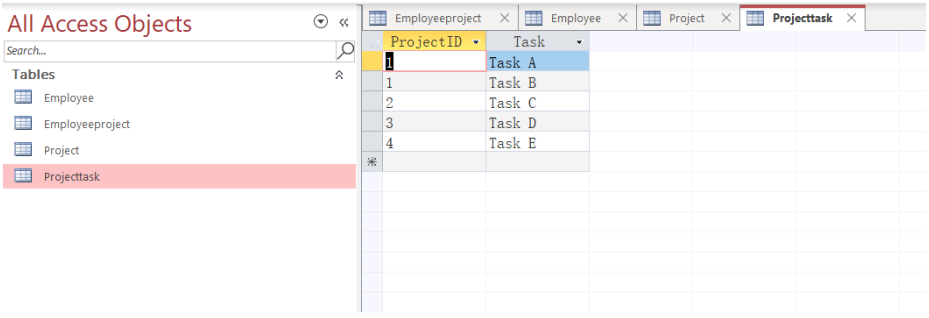

SELECT * FROM yilin_jiang_assignment3.projecttask;
ProjectID Task
1 Task A
1 Task B
2 Task C
3 Task D
4 Task E

4

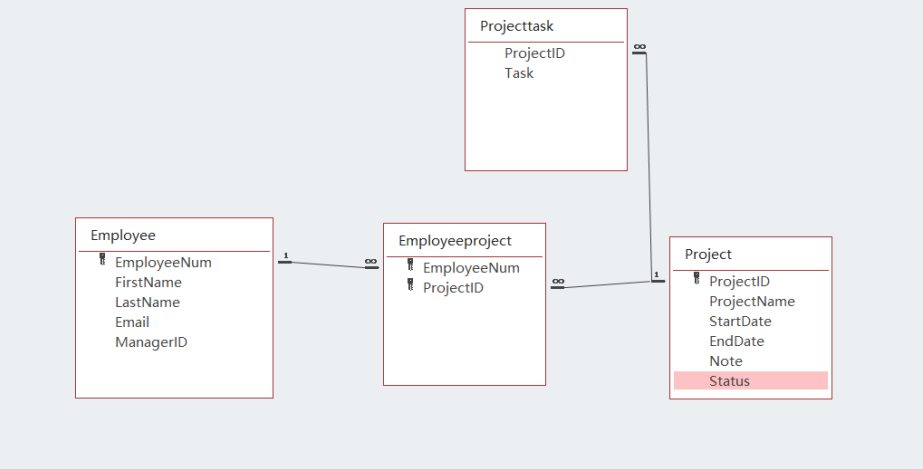

All Access Objects
Search...
Tables
Employee
Employeeproject
Project
Projecttask
Employeeproject
Employee
Project
Projecttask
EmployeeNu
FirstName
LastName
Email
ManagerID
Click to Add
1 Yifan Zhu yz5745@rit.edu
2 Yilin Jiang yj1114@rit.edu
3 Alice Johnson alice.johnson@example.com 1
4 Bob Williams bob.williams@example.com 1
5 Chat GPT chatgpt@openai.com 2


All Access Objects
Search...
Tables
Employee
Employeeproject
Project
Projecttask
Employeeproject
Employee
Project
Projecttask
EmployeeNu
ProjectID
Click to Add
1 1
2 2
3 3
4 4
5 5


All Access Obj...
Search...
Tables
Employee
Employeeproject
Project
Projecttask
Project
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 Epsil 1/9/2024 1/3/2025 Planned Planned


All Access Objects
Search...
Tables
Employee
Employeeproject
Project
Projecttask
Employeeproject
Employee
Project
Projecttask
ProjectID
Task
1 Task A
1 Task B
2 Task C
3 Task D
4 Task E

6



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