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Final ERD

Scripts

Creating User Table:

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UserProject Table:

Task Table:

UserProject Task Table

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SubTask Table:

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Inserting Data into Project Table:

Inserting into Task table:

Inserting into User Project Table:

Inserting into User Project Task:

Inserting data int comments:

Inserting Data into milestone:

Inserting Data into resource:

Inserting Data into Sub task:

Creating tables (SQL query)

```sql
CREATE TABLE "Comment" (
    commentid VARCHAR2(100) NOT NULL,
    taskid    VARCHAR2(20 CHAR) NOT NULL,
    userid    NUMBER,
    text      VARCHAR2(300)
);

ALTER TABLE "Comment" ADD CONSTRAINT comment_pk PRIMARY KEY (
commentid );

CREATE TABLE milestone (
    milestoneid   VARCHAR2(20 CHAR) NOT NULL,
    projectid     NUMBER NOT NULL,
    milestonename VARCHAR2(100),
    duedate       DATE
);

ALTER TABLE milestone ADD CONSTRAINT milestone_pk PRIMARY KEY (
milestoneid );

CREATE TABLE project (
```

```
    projectid        NUMBER NOT NULL,

    projectname        VARCHAR2(100) NOT NULL,

    projectstartdate DATE,

    projectduedate    DATE,

    projectstatus    VARCHAR2(200)

);


ALTER TABLE project ADD CONSTRAINT project_pk PRIMARY KEY ( projectid );


CREATE TABLE "Resource" (

    resourceid    VARCHAR2(200 CHAR) NOT NULL,

    resourcename VARCHAR2(100),

    resourcetype VARCHAR2(100),

    quantity     NUMBER,

    taskid        VARCHAR2(20 CHAR) NOT NULL

);


ALTER TABLE "Resource" ADD CONSTRAINT resource_pk PRIMARY KEY (

resourceid );


CREATE TABLE subtask (

    subtaskid    VARCHAR2(20 CHAR) NOT NULL,

    taskid        VARCHAR2(20 CHAR),
```

```sql
    subtaskname VARCHAR2(100),

    taskduedate DATE

);


ALTER TABLE subtask ADD CONSTRAINT subtask_pk PRIMARY KEY ( subtaskid );


CREATE TABLE task (

    taskid          VARCHAR2(20 CHAR) NOT NULL,

    taskname        VARCHAR2(100),

    taskstartdate DATE,

    taskduedate   DATE,

    taskstatus    VARCHAR2(100)

);


ALTER TABLE task ADD CONSTRAINT task_pk PRIMARY KEY ( taskid );


CREATE TABLE "User" (

    userid      NUMBER NOT NULL,

    username      VARCHAR2(200) NOT NULL,

    useremail    VARCHAR2(100),

    usercontact NUMBER

);
```

```sql
ALTER TABLE "User" ADD CONSTRAINT user_pk PRIMARY KEY ( userid );


CREATE TABLE userproject (
    projectid NUMBER NOT NULL,
    userid    NUMBER NOT NULL
);


ALTER TABLE userproject ADD CONSTRAINT userproject_pk PRIMARY KEY (
projectid,
                                              userid );


CREATE TABLE userprojecttask (
    taskid    VARCHAR2(20 CHAR) NOT NULL,
    projectid NUMBER NOT NULL,
    userid    NUMBER NOT NULL
);
ALTER TABLE userprojecttask
    ADD CONSTRAINT userprojecttask_pk PRIMARY KEY ( taskid,
                                   projectid,
                                          userid );
```

2Alter Table (Foreign Key Constraint)

```
ALTER TABLE "Comment"
    ADD CONSTRAINT comment_task_fk FOREIGN KEY ( taskid )
        REFERENCES task ( taskid );


ALTER TABLE "Comment"
    ADD CONSTRAINT comment_user_fk FOREIGN KEY ( userid )
        REFERENCES "User" ( userid );


ALTER TABLE milestone
    ADD CONSTRAINT milestone_project_fk FOREIGN KEY ( projectid )
        REFERENCES project ( projectid );


ALTER TABLE "Resource"
    ADD CONSTRAINT resource_task_fk FOREIGN KEY ( taskid )
        REFERENCES task ( taskid );


ALTER TABLE subtask
    ADD CONSTRAINT subtask_task_fk FOREIGN KEY ( taskid )
        REFERENCES task ( taskid );
```

```
ALTER TABLE userproject

    ADD CONSTRAINT userproject_project_fk FOREIGN KEY ( projectid )

        REFERENCES project ( projectid );


ALTER TABLE userproject

    ADD CONSTRAINT userproject_user_fk FOREIGN KEY ( userid )

        REFERENCES "User" ( userid );


ALTER TABLE userprojecttask

    ADD CONSTRAINT userprojecttask_project_fk FOREIGN KEY ( projectid )

        REFERENCES project ( projectid );


ALTER TABLE userprojecttask

    ADD CONSTRAINT userprojecttask_task_fk FOREIGN KEY ( taskid )

        REFERENCES task ( taskid );


ALTER TABLE userprojecttask

    ADD CONSTRAINT userprojecttask_user_fk FOREIGN KEY ( userid )

        REFERENCES "User" ( userid );
```

Inserting Data into the tables

User Table:

INSERT INTO "User" (userid, username, useremail, usercontact) VALUES (1, 'JJ Olatunji', 'jj.ksi@email.com', 9876543210);

INSERT INTO "User" (userid, username, useremail, usercontact) VALUES (2, 'Sita Sharma', 'sita.sharma@email.com', 9807654321);

INSERT INTO "User" (userid, username, useremail, usercontact) VALUES (3, 'Ram Prasad', 'ram.prasad@email.com', 9812345678);

INSERT INTO "User" (userid, username, useremail, usercontact) VALUES (4, 'John Smith', 'john.smith@email.com', 9876543210);

INSERT INTO "User" (userid, username, useremail, usercontact) VALUES (5, 'Emily Davis', 'emily.davis@email.com', 9123456789);

INSERT INTO "User" (userid, username, useremail, usercontact) VALUES (6, 'Rajesh Kumar', 'rajesh.kumar@email.com', 9999988888);

INSERT INTO "User" (userid, username, useremail, usercontact) VALUES (7, 'Anjali Gupta', 'anjali.gupta@email.com', 9874561230);

INSERT INTO "User" (userid, username, useremail, usercontact) VALUES (8, 'Chris Johnson', 'chris.johnson@email.com', 9101234567);

INSERT INTO "User" (userid, username, useremail, usercontact) VALUES (9, 'Deepak Acharya', 'deepak.acharya@email.com', 9823456712);

INSERT INTO "User" (userid, username, useremail, usercontact) VALUES (10, 'Maya

```
Thapa', 'maya.thapa@email.com', 9812312345);

INSERT INTO "User" (userid, username, useremail, usercontact) VALUES (11,
'Sophia Brown', 'sophia.brown@email.com', 9198765432);

INSERT INTO "User" (userid, username, useremail, usercontact) VALUES (12,
'Ramesh Adhikari', 'ramesh.adhikari@email.com', 9809876543);

INSERT INTO "User" (userid, username, useremail, usercontact) VALUES (13, 'Priya
Patel', 'priya.patel@email.com', 9123498765);

INSERT INTO "User" (userid, username, useremail, usercontact) VALUES (14,
'Michael Carter', 'michael.carter@email.com', 9876543456);

INSERT INTO "User" (userid, username, useremail, usercontact) VALUES (15, 'Kiran
Subedi', 'kiran.subedi@email.com', 9812341290);

SELECT * FROM "User";
```

Project Table:

```
INSERT INTO project (projectid, projectname, projectstartdate, projectduedate,
projectstatus)VALUES (2, 'Municipal Management System', TO_DATE('2024-02-15',
'YYYY-MM-DD'), TO_DATE('2024-08-15', 'YYYY-MM-DD'), 'Pending');

INSERT INTO project (projectid, projectname, projectstartdate, projectduedate,
projectstatus)VALUES (3, 'E-commerce Platform', TO_DATE('2023-10-01', 'YYYY-MM-
DD'), TO_DATE('2024-03-01', 'YYYY-MM-DD'), 'Completed');

INSERT INTO project (projectid, projectname, projectstartdate, projectduedate,
projectstatus)VALUES (4, 'Trip Planner App', TO_DATE('2024-03-01', 'YYYY-MM-
DD'), TO_DATE('2024-09-01', 'YYYY-MM-DD'), 'In Progress');
```

```sql
INSERT INTO project (projectid, projectname, projectstartdate, projectduedate,
projectstatus)VALUES (5, 'Inventory Management System', TO_DATE('2023-06-01',
'YYYY-MM-DD'), TO_DATE('2023-12-31', 'YYYY-MM-DD'), 'Completed');
INSERT INTO project (projectid, projectname, projectstartdate, projectduedate,
projectstatus)VALUES (6, 'Time Tracking Software', TO_DATE('2024-04-01', 'YYYY-
MM-DD'), TO_DATE('2024-10-01', 'YYYY-MM-DD'), 'In Progress');
INSERT INTO project (projectid, projectname, projectstartdate, projectduedate,
projectstatus)VALUES (7, 'School Management System', TO_DATE('2023-01-15',
'YYYY-MM-DD'), TO_DATE('2023-06-30', 'YYYY-MM-DD'), 'Completed');
INSERT INTO project (projectid, projectname, projectstartdate, projectduedate,
projectstatus)VALUES (8, 'AI Chatbot', TO_DATE('2024-05-01', 'YYYY-MM-DD'),
TO_DATE('2024-12-31', 'YYYY-MM-DD'), 'Pending');
INSERT INTO project (projectid, projectname, projectstartdate, projectduedate,
projectstatus)VALUES (9, 'B2B Supplier Portal', TO_DATE('2023-09-01', 'YYYY-MM-
DD'), TO_DATE('2024-03-31', 'YYYY-MM-DD'), 'In Progress');
INSERT INTO project (projectid, projectname, projectstartdate, projectduedate,
projectstatus)VALUES (10, 'Hospital Management System', TO_DATE('2022-11-01',
'YYYY-MM-DD'), TO_DATE('2023-04-30', 'YYYY-MM-DD'), 'Completed');
INSERT INTO project (projectid, projectname, projectstartdate, projectduedate,
projectstatus)VALUES (11, 'Online Learning Platform', TO_DATE('2023-05-01', 'YYYY-
MM-DD'), TO_DATE('2023-11-01', 'YYYY-MM-DD'), 'Completed');
INSERT INTO project (projectid, projectname, projectstartdate, projectduedate,
projectstatus)VALUES (12, 'Mobile Banking App', TO_DATE('2024-06-01', 'YYYY-MM-
```

```sql
DD'), TO_DATE('2024-12-01', 'YYYY-MM-DD'), 'In Progress');

INSERT INTO project (projectid, projectname, projectstartdate, projectduedate,
projectstatus)VALUES (13, 'Task Management System', TO_DATE('2024-02-01',
'YYYY-MM-DD'), TO_DATE('2024-07-01', 'YYYY-MM-DD'), 'In Progress');

INSERT INTO project (projectid, projectname, projectstartdate, projectduedate,
projectstatus)VALUES (14, 'Customer Support System', TO_DATE('2023-09-15',
'YYYY-MM-DD'), TO_DATE('2024-03-15', 'YYYY-MM-DD'), 'Pending');

INSERT INTO project (projectid, projectname, projectstartdate, projectduedate,
projectstatus)VALUES (15, 'Smart Home Automation', TO_DATE('2023-12-01', 'YYYY-
MM-DD'), TO_DATE('2024-05-01', 'YYYY-MM-DD'), 'In Progress');

SELECT * FROM project;
```

Task Table:

INSERT INTO task (taskid, taskname, taskstartdate, taskduedate, taskstatus)VALUES

('T001', 'Design Database Schema', TO_DATE('2024-01-01', 'YYYY-MM-DD'),

TO_DATE('2024-01-15', 'YYYY-MM-DD'), 'Completed');

INSERT INTO task (taskid, taskname, taskstartdate, taskduedate, taskstatus)VALUES

('T002', 'Develop Backend APIs', TO_DATE('2024-01-16', 'YYYY-MM-DD'),

TO_DATE('2024-02-15', 'YYYY-MM-DD'), 'In Progress');

INSERT INTO task (taskid, taskname, taskstartdate, taskduedate, taskstatus)VALUES

('T003', 'Create Frontend Layout', TO_DATE('2024-02-01', 'YYYY-MM-DD'),

TO_DATE('2024-02-20', 'YYYY-MM-DD'), 'Pending');

INSERT INTO task (taskid, taskname, taskstartdate, taskduedate, taskstatus)VALUES

('T004', 'Integrate Payment Gateway', TO_DATE('2024-03-01', 'YYYY-MM-DD'),

TO_DATE('2024-03-15', 'YYYY-MM-DD'), 'Pending');

INSERT INTO task (taskid, taskname, taskstartdate, taskduedate, taskstatus)VALUES

('T005', 'Set Up DevOps Pipeline', TO_DATE('2024-01-10', 'YYYY-MM-DD'),

TO_DATE('2024-01-20', 'YYYY-MM-DD'), 'Completed');

INSERT INTO task (taskid, taskname, taskstartdate, taskduedate, taskstatus)VALUES

('T006', 'Implement User Authentication', TO_DATE('2024-02-10', 'YYYY-MM-DD'),

TO_DATE('2024-02-28', 'YYYY-MM-DD'), 'In Progress');

INSERT INTO task (taskid, taskname, taskstartdate, taskduedate, taskstatus)VALUES

('T007', 'Perform Security Testing', TO_DATE('2024-03-05', 'YYYY-MM-DD'),

TO_DATE('2024-03-25', 'YYYY-MM-DD'), 'Pending');

```sql
INSERT INTO task (taskid, taskname, taskstartdate, taskduedate, taskstatus)VALUES
('T008', 'Write Project Documentation', TO_DATE('2024-04-01', 'YYYY-MM-DD'),
TO_DATE('2024-04-15', 'YYYY-MM-DD'), 'Pending');

INSERT INTO task (taskid, taskname, taskstartdate, taskduedate, taskstatus)VALUES
('T009', 'Configure Server', TO_DATE('2024-01-25', 'YYYY-MM-DD'), TO_DATE('2024-
02-05', 'YYYY-MM-DD'), 'Completed');

INSERT INTO task (taskid, taskname, taskstartdate, taskduedate, taskstatus)VALUES
('T010', 'Conduct Usability Testing', TO_DATE('2024-03-20', 'YYYY-MM-DD'),
TO_DATE('2024-04-01', 'YYYY-MM-DD'), 'Pending');

INSERT INTO task (taskid, taskname, taskstartdate, taskduedate, taskstatus)VALUES
('T011', 'Fix Bugs in System', TO_DATE('2024-02-20', 'YYYY-MM-DD'),
TO_DATE('2024-02-28', 'YYYY-MM-DD'), 'In Progress');

INSERT INTO task (taskid, taskname, taskstartdate, taskduedate, taskstatus)VALUES
('T012', 'Optimize Database Queries', TO_DATE('2024-01-15', 'YYYY-MM-DD'),
TO_DATE('2024-01-25', 'YYYY-MM-DD'), 'Completed');

INSERT INTO task (taskid, taskname, taskstartdate, taskduedate, taskstatus)VALUES
('T013', 'Set Up CI/CD Pipeline', TO_DATE('2024-02-05', 'YYYY-MM-DD'),
TO_DATE('2024-02-15', 'YYYY-MM-DD'), 'In Progress');

INSERT INTO task (taskid, taskname, taskstartdate, taskduedate, taskstatus)VALUES
('T014', 'Develop Mobile App UI', TO_DATE('2024-01-20', 'YYYY-MM-DD'),
TO_DATE('2024-02-10', 'YYYY-MM-DD'), 'Completed');

INSERT INTO task (taskid, taskname, taskstartdate, taskduedate, taskstatus)VALUES
('T015', 'Launch Project', TO_DATE('2024-04-15', 'YYYY-MM-DD'), TO_DATE('2024-
```

```
04-30', 'YYYY-MM-DD'), 'Pending');
SELECT * FROM task;
```

UserProject Table:

```
INSERT INTO userproject (projectid, userid) VALUES (3, 7);
INSERT INTO userproject (projectid, userid) VALUES (1, 10);
INSERT INTO userproject (projectid, userid) VALUES (5, 4);
INSERT INTO userproject (projectid, userid) VALUES (2, 14);
INSERT INTO userproject (projectid, userid) VALUES (6, 3);
INSERT INTO userproject (projectid, userid) VALUES (4, 12);
INSERT INTO userproject (projectid, userid) VALUES (8, 1);
INSERT INTO userproject (projectid, userid) VALUES (10, 9);
INSERT INTO userproject (projectid, userid) VALUES (15, 2);
INSERT INTO userproject (projectid, userid) VALUES (12, 5);
INSERT INTO userproject (projectid, userid) VALUES (9, 8);
INSERT INTO userproject (projectid, userid) VALUES (14, 11);
INSERT INTO userproject (projectid, userid) VALUES (13, 6);
INSERT INTO userproject (projectid, userid) VALUES (11, 13);
INSERT INTO userproject (projectid, userid) VALUES (7, 15);
INSERT INTO userproject (projectid, userid) VALUES (3, 1);
INSERT INTO userproject (projectid, userid) VALUES (5, 7);
INSERT INTO userproject (projectid, userid) VALUES (2, 9);
```

```
INSERT INTO userproject (projectid, userid) VALUES (8, 4);

INSERT INTO userproject (projectid, userid) VALUES (6, 14);

INSERT INTO userproject (projectid, userid) VALUES (10, 12);

INSERT INTO userproject (projectid, userid) VALUES (1, 3);

INSERT INTO userproject (projectid, userid) VALUES (11, 2);

INSERT INTO userproject (projectid, userid) VALUES (12, 6);

INSERT INTO userproject (projectid, userid) VALUES (4, 8);

INSERT INTO userproject (projectid, userid) VALUES (9, 15);

INSERT INTO userproject (projectid, userid) VALUES (14, 5);

INSERT INTO userproject (projectid, userid) VALUES (7, 11);

INSERT INTO userproject (projectid, userid) VALUES (15, 10);

INSERT INTO userproject (projectid, userid) VALUES (13, 13);


select * FROM userproject;
```

UserProjectTask Table:

```
INSERT INTO userprojecttask (taskid, projectid, userid) VALUES ('T001', 3, 7);

INSERT INTO userprojecttask (taskid, projectid, userid) VALUES ('T002', 1, 10);

INSERT INTO userprojecttask (taskid, projectid, userid) VALUES ('T003', 5, 4);

INSERT INTO userprojecttask (taskid, projectid, userid) VALUES ('T004', 2, 14);

INSERT INTO userprojecttask (taskid, projectid, userid) VALUES ('T005', 6, 3);

INSERT INTO userprojecttask (taskid, projectid, userid) VALUES ('T006', 4, 12);
```

```sql
INSERT INTO userprojecttask (taskid, projectid, userid) VALUES ('T007', 8, 1);
INSERT INTO userprojecttask (taskid, projectid, userid) VALUES ('T008', 10, 9);
INSERT INTO userprojecttask (taskid, projectid, userid) VALUES ('T009', 15, 2);
INSERT INTO userprojecttask (taskid, projectid, userid) VALUES ('T010', 12, 5);
INSERT INTO userprojecttask (taskid, projectid, userid) VALUES ('T011', 9, 8);
INSERT INTO userprojecttask (taskid, projectid, userid) VALUES ('T012', 14, 11);
INSERT INTO userprojecttask (taskid, projectid, userid) VALUES ('T013', 13, 6);
INSERT INTO userprojecttask (taskid, projectid, userid) VALUES ('T014', 11, 13);
INSERT INTO userprojecttask (taskid, projectid, userid) VALUES ('T015', 7, 15);
INSERT INTO userprojecttask (taskid, projectid, userid) VALUES ('T001', 3, 1);
INSERT INTO userprojecttask (taskid, projectid, userid) VALUES ('T002', 5, 7);
INSERT INTO userprojecttask (taskid, projectid, userid) VALUES ('T003', 2, 9);
INSERT INTO userprojecttask (taskid, projectid, userid) VALUES ('T004', 8, 4);
INSERT INTO userprojecttask (taskid, projectid, userid) VALUES ('T005', 6, 14);
INSERT INTO userprojecttask (taskid, projectid, userid) VALUES ('T006', 10, 12);
INSERT INTO userprojecttask (taskid, projectid, userid) VALUES ('T007', 1, 3);
INSERT INTO userprojecttask (taskid, projectid, userid) VALUES ('T008', 11, 2);
INSERT INTO userprojecttask (taskid, projectid, userid) VALUES ('T009', 12, 6);
INSERT INTO userprojecttask (taskid, projectid, userid) VALUES ('T010', 4, 8);
INSERT INTO userprojecttask (taskid, projectid, userid) VALUES ('T011', 9, 15);
INSERT INTO userprojecttask (taskid, projectid, userid) VALUES ('T012', 14, 5);
INSERT INTO userprojecttask (taskid, projectid, userid) VALUES ('T013', 7, 11);
INSERT INTO userprojecttask (taskid, projectid, userid) VALUES ('T014', 15, 10);
```

```sql
INSERT INTO userprojecttask (taskid, projectid, userid) VALUES ('T015', 13, 13);
```

```sql
select *FROM userprojecttask;
```

Comment Table:

```sql
INSERT INTO "Comment" (commentid, taskid, userid, text) VALUES ('C001', 'T001', 3,
'The task is almost completed.');
INSERT INTO "Comment" (commentid, taskid, userid, text) VALUES ('C002', 'T002', 5,
'Please update the status.');
INSERT INTO "Comment" (commentid, taskid, userid, text) VALUES ('C003', 'T003', 7,
'Waiting for manager's approval.');
INSERT INTO "Comment" (commentid, taskid, userid, text) VALUES ('C004', 'T004', 2,
'Added additional resources for faster completion.');
INSERT INTO "Comment" (commentid, taskid, userid, text) VALUES ('C005', 'T005', 9,
'Deadline extended by 2 days.');
INSERT INTO "Comment" (commentid, taskid, userid, text) VALUES ('C006', 'T006',
12, 'Review meeting scheduled for tomorrow.');
INSERT INTO "Comment" (commentid, taskid, userid, text) VALUES ('C007', 'T007', 1,
'Documentation is being finalized.');
INSERT INTO "Comment" (commentid, taskid, userid, text) VALUES ('C008', 'T008', 4,
'Found a bug during testing.');
INSERT INTO "Comment" (commentid, taskid, userid, text) VALUES ('C009', 'T009', 6,
'Task reassigned to another team.');
INSERT INTO "Comment" (commentid, taskid, userid, text) VALUES ('C010', 'T010', 8,
'Dependencies need to be resolved.');
```

```sql
INSERT INTO "Comment" (commentid, taskid, userid, text) VALUES ('C011', 'T011',
10, 'Task completed and under review.');

INSERT INTO "Comment" (commentid, taskid, userid, text) VALUES ('C012', 'T012',
15, 'Final edits made, ready for submission.');

INSERT INTO "Comment" (commentid, taskid, userid, text) VALUES ('C013', 'T013',
11, 'Need additional resources for completion.');

INSERT INTO "Comment" (commentid, taskid, userid, text) VALUES ('C014', 'T014',
13, 'Checked with the client, no changes needed.');

INSERT INTO "Comment" (commentid, taskid, userid, text) VALUES ('C015', 'T015',
14, 'All subtasks completed, finalizing the task.');

INSERT INTO "Comment" (commentid, taskid, userid, text) VALUES ('C016', 'T001', 4,
'The task is progressing well, just need a few clarifications.');

INSERT INTO "Comment" (commentid, taskid, userid, text) VALUES ('C017', 'T002', 6,
'Please check the latest feedback.');

INSERT INTO "Comment" (commentid, taskid, userid, text) VALUES ('C018', 'T003', 8,
'Ready to proceed with testing.');

INSERT INTO "Comment" (commentid, taskid, userid, text) VALUES ('C019', 'T004',
10, 'Noted the feedback, will make changes accordingly.');

INSERT INTO "Comment" (commentid, taskid, userid, text) VALUES ('C020', 'T005',
12, 'Reviewing the latest results before final submission.');

INSERT INTO "Comment" (commentid, taskid, userid, text) VALUES ('C021', 'T006',
15, 'The task is almost complete, final review pending.');

INSERT INTO "Comment" (commentid, taskid, userid, text) VALUES ('C022', 'T007', 1,
```

'All initial steps completed, ready for the next phase.');

INSERT INTO "Comment" (commentid, taskid, userid, text) VALUES ('C023', 'T008', 3,

'Fixing the minor issue before the next release.');

INSERT INTO "Comment" (commentid, taskid, userid, text) VALUES ('C024', 'T009', 5,

'Waiting on additional approvals from the higher-ups.');

INSERT INTO "Comment" (commentid, taskid, userid, text) VALUES ('C025', 'T010', 7,

'The documentation is 80% done, will finalize by the end of the week.');

INSERT INTO "Comment" (commentid, taskid, userid, text) VALUES ('C026', 'T011', 9,

'Testing phase initiated.');

INSERT INTO "Comment" (commentid, taskid, userid, text) VALUES ('C027', 'T012',

11, 'Preliminary testing done, waiting for final validation.');

INSERT INTO "Comment" (commentid, taskid, userid, text) VALUES ('C028', 'T013',

13, 'No blockers, task moving forward.');

INSERT INTO "Comment" (commentid, taskid, userid, text) VALUES ('C029', 'T014', 2,

'Client provided positive feedback on the progress.');

INSERT INTO "Comment" (commentid, taskid, userid, text) VALUES ('C030', 'T015',

14, 'Task completed successfully, now moving to closure.');

12 select *FROM "Comment";

Milestone Table:

```
INSERT INTO milestone (milestoneid, projectid, milestonename, duedate) VALUES
('M001', 1, 'Project Kickoff', TO_DATE('2024-01-10', 'YYYY-MM-DD'));
INSERT INTO milestone (milestoneid, projectid, milestonename, duedate) VALUES
('M002', 2, 'Initial Design Phase', TO_DATE('2024-02-15', 'YYYY-MM-DD'));
INSERT INTO milestone (milestoneid, projectid, milestonename, duedate) VALUES
('M003', 3, 'User Testing', TO_DATE('2024-03-05', 'YYYY-MM-DD'));
INSERT INTO milestone (milestoneid, projectid, milestonename, duedate) VALUES
('M004', 4, 'Development Phase Completion', TO_DATE('2024-04-10', 'YYYY-MM-DD'));
INSERT INTO milestone (milestoneid, projectid, milestonename, duedate) VALUES
('M005', 5, 'Alpha Release', TO_DATE('2024-04-20', 'YYYY-MM-DD'));
INSERT INTO milestone (milestoneid, projectid, milestonename, duedate) VALUES
('M006', 6, 'Beta Testing', TO_DATE('2024-05-15', 'YYYY-MM-DD'));
INSERT INTO milestone (milestoneid, projectid, milestonename, duedate) VALUES
('M007', 7, 'Final Design Approval', TO_DATE('2024-06-01', 'YYYY-MM-DD'));
INSERT INTO milestone (milestoneid, projectid, milestonename, duedate) VALUES
('M008', 8, 'System Integration Testing', TO_DATE('2024-07-01', 'YYYY-MM-DD'));
INSERT INTO milestone (milestoneid, projectid, milestonename, duedate) VALUES
('M009', 9, 'Client Review', TO_DATE('2024-07-15', 'YYYY-MM-DD'));
INSERT INTO milestone (milestoneid, projectid, milestonename, duedate) VALUES
```

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('M010', 10, 'Product Launch', TO_DATE('2024-08-10', 'YYYY-MM-DD'));

INSERT INTO milestone (milestoneid, projectid, milestonename, duedate) VALUES

('M011', 11, 'Initial Setup Complete', TO_DATE('2024-09-01', 'YYYY-MM-DD'));

INSERT INTO milestone (milestoneid, projectid, milestonename, duedate) VALUES

('M012', 12, 'Stage 1 Completion', TO_DATE('2024-09-15', 'YYYY-MM-DD'));

INSERT INTO milestone (milestoneid, projectid, milestonename, duedate) VALUES

('M013', 13, 'Product Roadmap Finalization', TO_DATE('2024-10-01', 'YYYY-MM-DD'));

INSERT INTO milestone (milestoneid, projectid, milestonename, duedate) VALUES

('M014', 14, 'First User Demo', TO_DATE('2024-10-10', 'YYYY-MM-DD'));

INSERT INTO milestone (milestoneid, projectid, milestonename, duedate) VALUES

('M015', 15, 'Testing Complete', TO_DATE('2024-10-20', 'YYYY-MM-DD'));

INSERT INTO milestone (milestoneid, projectid, milestonename, duedate) VALUES

('M016', 1, 'Project Requirements Finalized', TO_DATE('2024-01-25', 'YYYY-MM-DD'));

INSERT INTO milestone (milestoneid, projectid, milestonename, duedate) VALUES

('M017', 2, 'Design Approval', TO_DATE('2024-03-10', 'YYYY-MM-DD'));

INSERT INTO milestone (milestoneid, projectid, milestonename, duedate) VALUES

('M018', 3, 'Final Prototype', TO_DATE('2024-03-20', 'YYYY-MM-DD'));

INSERT INTO milestone (milestoneid, projectid, milestonename, duedate) VALUES

('M019', 4, 'User Acceptance Testing', TO_DATE('2024-04-30', 'YYYY-MM-DD'));

INSERT INTO milestone (milestoneid, projectid, milestonename, duedate) VALUES

('M020', 5, 'Release Candidate', TO_DATE('2024-05-05', 'YYYY-MM-DD'));

INSERT INTO milestone (milestoneid, projectid, milestonename, duedate) VALUES
```

```
('M021', 6, 'Final System Integration', TO_DATE('2024-06-05', 'YYYY-MM-DD'));

INSERT INTO milestone (milestoneid, projectid, milestonename, duedate) VALUES

('M022', 7, 'Alpha Testing', TO_DATE('2024-06-20', 'YYYY-MM-DD'));

INSERT INTO milestone (milestoneid, projectid, milestonename, duedate) VALUES

('M023', 8, 'Pre-Launch Planning', TO_DATE('2024-07-05', 'YYYY-MM-DD'));

INSERT INTO milestone (milestoneid, projectid, milestonename, duedate) VALUES

('M024', 9, 'Internal Review', TO_DATE('2024-07-25', 'YYYY-MM-DD'));

INSERT INTO milestone (milestoneid, projectid, milestonename, duedate) VALUES

('M025', 10, 'Production Deployment', TO_DATE('2024-08-25', 'YYYY-MM-DD'));

INSERT INTO milestone (milestoneid, projectid, milestonename, duedate) VALUES

('M026', 11, 'System Testing', TO_DATE('2024-09-10', 'YYYY-MM-DD'));

INSERT INTO milestone (milestoneid, projectid, milestonename, duedate) VALUES

('M027', 12, 'Final Evaluation', TO_DATE('2024-09-30', 'YYYY-MM-DD'));

INSERT INTO milestone (milestoneid, projectid, milestonename, duedate) VALUES

('M028', 13, 'Public Launch', TO_DATE('2024-10-15', 'YYYY-MM-DD'));

INSERT INTO milestone (milestoneid, projectid, milestonename, duedate) VALUES

('M029', 14, 'First Customer Feedback', TO_DATE('2024-11-01', 'YYYY-MM-DD'));

INSERT INTO milestone (milestoneid, projectid, milestonename, duedate) VALUES

('M030', 15, 'Post-Launch Review', TO_DATE('2024-11-10', 'YYYY-MM-DD'));

select *FROM milestone;
```

Resource Table:

```
INSERT INTO "Resource" (resourceid, resourcename, resourcetype, quantity, taskid)
VALUES ('R001', 'Laptop', 'Hardware', 5, 'T001');
INSERT INTO "Resource" (resourceid, resourcename, resourcetype, quantity, taskid)
VALUES ('R002', 'Projector', 'Hardware', 2, 'T002');
INSERT INTO "Resource" (resourceid, resourcename, resourcetype, quantity, taskid)
VALUES ('R003', 'Desk', 'Furniture', 10, 'T003');
INSERT INTO "Resource" (resourceid, resourcename, resourcetype, quantity, taskid)
VALUES ('R004', 'Chair', 'Furniture', 15, 'T004');
INSERT INTO "Resource" (resourceid, resourcename, resourcetype, quantity, taskid)
VALUES ('R005', 'Printer', 'Hardware', 3, 'T005');
INSERT INTO "Resource" (resourceid, resourcename, resourcetype, quantity, taskid)
VALUES ('R006', 'Whiteboard', 'Furniture', 4, 'T006');
INSERT INTO "Resource" (resourceid, resourcename, resourcetype, quantity, taskid)
VALUES ('R007', 'Office Software', 'Software', 20, 'T007');
INSERT INTO "Resource" (resourceid, resourcename, resourcetype, quantity, taskid)
VALUES ('R008', 'Network Cable', 'Hardware', 30, 'T008');
INSERT INTO "Resource" (resourceid, resourcename, resourcetype, quantity, taskid)
VALUES ('R009', 'Scanner', 'Hardware', 2, 'T009');
INSERT INTO "Resource" (resourceid, resourcename, resourcetype, quantity, taskid)
VALUES ('R010', 'Headphones', 'Hardware', 10, 'T010');
```

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INSERT INTO "Resource" (resourceid, resourcename, resourcetype, quantity, taskid)
VALUES ('R011', 'Software License', 'Software', 5, 'T011');

INSERT INTO "Resource" (resourceid, resourcename, resourcetype, quantity, taskid)
VALUES ('R012', 'Smartphone', 'Hardware', 8, 'T012');

INSERT INTO "Resource" (resourceid, resourcename, resourcetype, quantity, taskid)
VALUES ('R013', 'Monitor', 'Hardware', 12, 'T013');

INSERT INTO "Resource" (resourceid, resourcename, resourcetype, quantity, taskid)
VALUES ('R014', 'Web Hosting', 'Software', 1, 'T014');

INSERT INTO "Resource" (resourceid, resourcename, resourcetype, quantity, taskid)
VALUES ('R015', 'Database License', 'Software', 1, 'T015');

INSERT INTO "Resource" (resourceid, resourcename, resourcetype, quantity, taskid)
VALUES ('R016', 'Project Management Tool', 'Software', 3, 'T001');

INSERT INTO "Resource" (resourceid, resourcename, resourcetype, quantity, taskid)
VALUES ('R017', 'Backup Hard Drive', 'Hardware', 4, 'T002');

INSERT INTO "Resource" (resourceid, resourcename, resourcetype, quantity, taskid)
VALUES ('R018', 'Server Rack', 'Hardware', 2, 'T003');

INSERT INTO "Resource" (resourceid, resourcename, resourcetype, quantity, taskid)
VALUES ('R019', 'Air Conditioner', 'Furniture', 1, 'T004');

INSERT INTO "Resource" (resourceid, resourcename, resourcetype, quantity, taskid)
VALUES ('R020', 'External Hard Drive', 'Hardware', 3, 'T005');

INSERT INTO "Resource" (resourceid, resourcename, resourcetype, quantity, taskid)
VALUES ('R021', 'Email Service', 'Software', 5, 'T006');

INSERT INTO "Resource" (resourceid, resourcename, resourcetype, quantity, taskid)
```

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VALUES ('R022', 'Wi-Fi Router', 'Hardware', 10, 'T007');
INSERT INTO "Resource" (resourceid, resourcename, resourcetype, quantity, taskid)
VALUES ('R023', 'Video Conferencing Tool', 'Software', 2, 'T008');
INSERT INTO "Resource" (resourceid, resourcename, resourcetype, quantity, taskid)
VALUES ('R024', 'Keyboard', 'Hardware', 15, 'T009');
INSERT INTO "Resource" (resourceid, resourcename, resourcetype, quantity, taskid)
VALUES ('R025', 'Mouse', 'Hardware', 12, 'T010');
INSERT INTO "Resource" (resourceid, resourcename, resourcetype, quantity, taskid)
VALUES ('R026', 'Cloud Storage', 'Software', 4, 'T011');
INSERT INTO "Resource" (resourceid, resourcename, resourcetype, quantity, taskid)
VALUES ('R027', 'USB Drive', 'Hardware', 20, 'T012');
INSERT INTO "Resource" (resourceid, resourcename, resourcetype, quantity, taskid)
VALUES ('R028', 'Printer Paper', 'Hardware', 30, 'T013');
INSERT INTO "Resource" (resourceid, resourcename, resourcetype, quantity, taskid)
VALUES ('R029', 'Firewall', 'Hardware', 1, 'T014');
INSERT INTO "Resource" (resourceid, resourcename, resourcetype, quantity, taskid)
VALUES ('R030', 'Database Server', 'Hardware', 1, 'T015');
select *from "Resource";
```

SubTask Table:

```
INSERT INTO subtask (subtaskid, taskid, subtaskname, taskduedate) VALUES
('ST001', 'T001', 'Create user authentication system', TO_DATE('2024-01-10', 'YYYY-MM-DD'));
INSERT INTO subtask (subtaskid, taskid, subtaskname, taskduedate) VALUES
('ST002', 'T002', 'Set up project repository', TO_DATE('2024-01-15', 'YYYY-MM-DD'));
INSERT INTO subtask (subtaskid, taskid, subtaskname, taskduedate) VALUES
('ST003', 'T003', 'Design project database schema', TO_DATE('2024-01-20', 'YYYY-MM-DD'));
INSERT INTO subtask (subtaskid, taskid, subtaskname, taskduedate) VALUES
('ST004', 'T004', 'Develop project API', TO_DATE('2024-01-25', 'YYYY-MM-DD'));
INSERT INTO subtask (subtaskid, taskid, subtaskname, taskduedate) VALUES
('ST005', 'T005', 'Test project functionality', TO_DATE('2024-01-30', 'YYYY-MM-DD'));
INSERT INTO subtask (subtaskid, taskid, subtaskname, taskduedate) VALUES
('ST006', 'T006', 'Write documentation for the API', TO_DATE('2024-02-05', 'YYYY-MM-DD'));
INSERT INTO subtask (subtaskid, taskid, subtaskname, taskduedate) VALUES
('ST007', 'T007', 'Create unit tests for the frontend', TO_DATE('2024-02-10', 'YYYY-MM-DD'));
INSERT INTO subtask (subtaskid, taskid, subtaskname, taskduedate) VALUES
('ST008', 'T008', 'Set up CI/CD pipeline', TO_DATE('2024-02-15', 'YYYY-MM-DD'));
```

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INSERT INTO subtask (subtaskid, taskid, subtaskname, taskduedate) VALUES
('ST009', 'T009', 'Deploy the application on staging server', TO_DATE('2024-02-20', 'YYYY-MM-DD'));

INSERT INTO subtask (subtaskid, taskid, subtaskname, taskduedate) VALUES
('ST010', 'T010', 'Set up monitoring and logging', TO_DATE('2024-02-25', 'YYYY-MM-DD'));

INSERT INTO subtask (subtaskid, taskid, subtaskname, taskduedate) VALUES
('ST011', 'T011', 'Create UI mockups', TO_DATE('2024-03-01', 'YYYY-MM-DD'));

INSERT INTO subtask (subtaskid, taskid, subtaskname, taskduedate) VALUES
('ST012', 'T012', 'Develop landing page', TO_DATE('2024-03-05', 'YYYY-MM-DD'));

INSERT INTO subtask (subtaskid, taskid, subtaskname, taskduedate) VALUES
('ST013', 'T013', 'Implement authentication flow', TO_DATE('2024-03-10', 'YYYY-MM-DD'));

INSERT INTO subtask (subtaskid, taskid, subtaskname, taskduedate) VALUES
('ST014', 'T014', 'Test user registration functionality', TO_DATE('2024-03-15', 'YYYY-MM-DD'));

INSERT INTO subtask (subtaskid, taskid, subtaskname, taskduedate) VALUES
('ST015', 'T015', 'Create deployment plan', TO_DATE('2024-03-20', 'YYYY-MM-DD'));

INSERT INTO subtask (subtaskid, taskid, subtaskname, taskduedate) VALUES
('ST016', 'T001', 'Write project requirements', TO_DATE('2024-01-12', 'YYYY-MM-DD'));

INSERT INTO subtask (subtaskid, taskid, subtaskname, taskduedate) VALUES
('ST017', 'T002', 'Set up initial React app structure', TO_DATE('2024-01-18', 'YYYY-
```

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MM-DD'));

INSERT INTO subtask (subtaskid, taskid, subtaskname, taskduedate) VALUES
('ST018', 'T003', 'Design database tables', TO_DATE('2024-01-22', 'YYYY-MM-DD'));

INSERT INTO subtask (subtaskid, taskid, subtaskname, taskduedate) VALUES
('ST019', 'T004', 'Write backend API endpoints', TO_DATE('2024-01-28', 'YYYY-MM-DD'));

INSERT INTO subtask (subtaskid, taskid, subtaskname, taskduedate) VALUES
('ST020', 'T005', 'Create test cases for backend', TO_DATE('2024-02-03', 'YYYY-MM-DD'));

INSERT INTO subtask (subtaskid, taskid, subtaskname, taskduedate) VALUES
('ST021', 'T006', 'Update documentation with new features', TO_DATE('2024-02-07', 'YYYY-MM-DD'));

INSERT INTO subtask (subtaskid, taskid, subtaskname, taskduedate) VALUES
('ST022', 'T007', 'Develop components for homepage', TO_DATE('2024-02-12', 'YYYY-MM-DD'));

INSERT INTO subtask (subtaskid, taskid, subtaskname, taskduedate) VALUES
('ST023', 'T008', 'Configure project environment', TO_DATE('2024-02-17', 'YYYY-MM-DD'));

INSERT INTO subtask (subtaskid, taskid, subtaskname, taskduedate) VALUES
('ST024', 'T009', 'Run load tests on staging server', TO_DATE('2024-02-22', 'YYYY-MM-DD'));

INSERT INTO subtask (subtaskid, taskid, subtaskname, taskduedate) VALUES
('ST025', 'T010', 'Create user roles and permissions', TO_DATE('2024-02-27', 'YYYY-
```

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MM-DD'));

INSERT INTO subtask (subtaskid, taskid, subtaskname, taskduedate) VALUES
('ST026', 'T011', 'Refactor code for better performance', TO_DATE('2024-03-02', 'YYYY-MM-DD'));

INSERT INTO subtask (subtaskid, taskid, subtaskname, taskduedate) VALUES
('ST027', 'T012', 'Integrate forms with backend', TO_DATE('2024-03-07', 'YYYY-MM-DD'));

INSERT INTO subtask (subtaskid, taskid, subtaskname, taskduedate) VALUES
('ST028', 'T013', 'Fix authentication bugs', TO_DATE('2024-03-12', 'YYYY-MM-DD'));

INSERT INTO subtask (subtaskid, taskid, subtaskname, taskduedate) VALUES
('ST029', 'T014', 'Verify user login and logout', TO_DATE('2024-03-17', 'YYYY-MM-DD'));

INSERT INTO subtask (subtaskid, taskid, subtaskname, taskduedate) VALUES
('ST030', 'T015', 'Prepare release notes', TO_DATE('2024-03-22', 'YYYY-MM-DD'));
select *from subtask;
```