Jericho Timbol CRUD

For this project you will perform the indicated actions using insert, update, or delete

After each numbered operation is complete, you will execute a query ( provided) to check you work.

Do not use a surrogate key in any command, unless the instructions say you can.

Note change from db02. There is an employeeNumber which is unique.

**IMPORTANT:**

At the beginning of your input file – put the following commands ( before any others)

ALTER SEQUENCE employee\_id\_seq RESTART WITH 20;

ALTER SEQUENCE meeting\_id\_seq RESTART WITH 120;

BEGIN;

After the last query. Put the following command

ROLLBACK;

Doing this will allow you to run your file multiple times without negatively affecting the database.

**1 – Add a new employee**

Name = ‘Farquar’ WorkPhone = 9876 HomePhone 3333  
 EmployeeID 'X476543'

*Do not set the id yourself. Let the system do that for you.*

*This should consist of two insert commands. You may use the returned ID from the first command in the second command.*

**Query:**

SELECT employeenumber, employee.name , phoneType.name, PhoneInfo.Number

FROM Employee

JOIN PhoneInfo ON ( employee.id = phoneInfo.employeeid)

JOIN PhoneType ON ( phoneType.id = phoneInfo.type)

WHERE employee.name ILIKE 'F%';

**2 – Add two new employees in a single statement**

Name = ‘Amy’ EmployeeNumber = ‘X412345'

Name = ‘Bert’ EmployeeNumber = 'X412346'

**Query:**

SELECT employeenumber, employee.name

FROM Employee

WHERE Employeenumber like 'X4%'

ORDER BY employeenumber;

**3 – Add phone numbers for Amy**

Pager ( P) ‘345-3456’

Business (B) ‘123-4567

*Do NOT use employee.ID in any of your commands.*

**Query:**

SELECT employeenumber, employee.name , phoneType.name as PhoneType, PhoneInfo.Number

FROM Employee

JOIN PhoneInfo ON ( Employee.id = phoneInfo.employeeid)

JOIN PhoneType ON ( phoneType.id = phoneInfo.type)

WHERE employee.employeenumber LIKE 'X4%'

ORDER BY employeenumber, phoneType;

**4-Change Amy’s name ( EmployeeNumber X412345) to ‘Ardvark’**

*Do NOT use employee.ID in any of your commands.*

**Query:**

SELECT employeenumber, employee.name

FROM Employee

WHERE Employeenumber like 'X4%'

order by employeenumber;

**5 – Delete the employee with employeNumber = ‘X412346';**

**Query:**

SELECT employeenumber, name

FROM Employee

WHERE EmployeeNumber LIKE 'X4%'

ORDER BY NAME;

**6 – Delete Employee ‘X412345’ from the database**

*This will take two commands. One to delete the phoneInfo, one to delete the employee record*

**Query:**

SELECT employeenumber, name

FROM Employee

WHERE EmployeeNumber LIKE 'X4%'

ORDER BY NAME;

**7 – Add two new employees**

Name = ‘New1’ EmployeeID = ‘X498765'

Name = ‘New2 EmployeeID = 'X498989’'

*Add both in a single command;*

**Query:**

SELECT employeenumber, name

FROM Employee

WHERE name ilike 'New%'

ORDER BY EmployeeNumber;

**8 – Give New1 and New2 a phone number**

Business (B) 123-4567 for both employees.

*Do this in a single command*

**Query:**

SELECT employeenumber, employee.name , phoneType.name, PhoneInfo.Number

FROM Employee

JOIN PhoneInfo ON ( Employee.id = phoneInfo.employeeid)

JOIN PhoneType ON ( phoneType.id = phoneInfo.type)

WHERE employee.employeeNumber like 'X4%'

ORDER BY employee.employeeNumber;

**9 – Create a new meeting**

Purpose = ‘New Employee Orientation’

RoomNumber 104

Building ‘A’

StartTime ‘2019-04-05 at 3:00 PM’

Duration one hour

Created by ‘Sarah’ ( ‘X311234’)

Moderated by ‘Ariel ( ‘X311239’)

*Do this in a single command*

**Query:**

SELECT room.roomNumber, building, startTime, duration, purpose, employee.name as creator

FROM Meeting

JOIN room ON ( room.id = meeting.roomid)

JOIN employee ON ( employee.id = meeting.creatorid)

ORDER BY starttime ;

**10 – Add Employees to the new meeting you just created**

EmployeeIDs 'X476543', 'X498765', 'X498989'

*There is only one Meeting that has a purpose of ‘New %’ Use that to find the correct meeting.*

*Do this in one command.*

**Query:**

SELECT name, employeenumber

FROM Employee

JOIN Attendees ON Employee.id = Attendees.employeeid

JOIN Meeting ON Meeting.id = Attendees.meetingid

WHERE Meeting.purpose like 'New%'

ORDER BY NAME;

**11 – Move the time of all staff meetings 30 minutes into the future**

**Query:**

SELECT \*

FROM Meeting

WHERE purpose = 'Staff'

ORDER BY starttime, roomid;

**12 – Remove Farquar from all meetings**

**Query:**

SELECT name, employeenumber

FROM Employee

JOIN Attendees ON Employee.id = Attendees.employeeid

JOIN Meeting ON Meeting.id = Attendees.meetingid

WHERE Meeting.purpose like 'New%'

ORDER BY NAME;

**13 – Change the moderator for the ‘New Employee %’ meeting to Albert ( ‘X311248’)**

**Query:**

SELECT purpose, Employee.name as Moderator

FROM Meeting

JOIN Employee ON employee.id = meeting.moderatorid

WHERE meeting.purpose like 'New%';

**14 – For every meeting that Albert ( ‘X311248’) is moderator, change to Max ( ‘X311237’)**

**Query:**

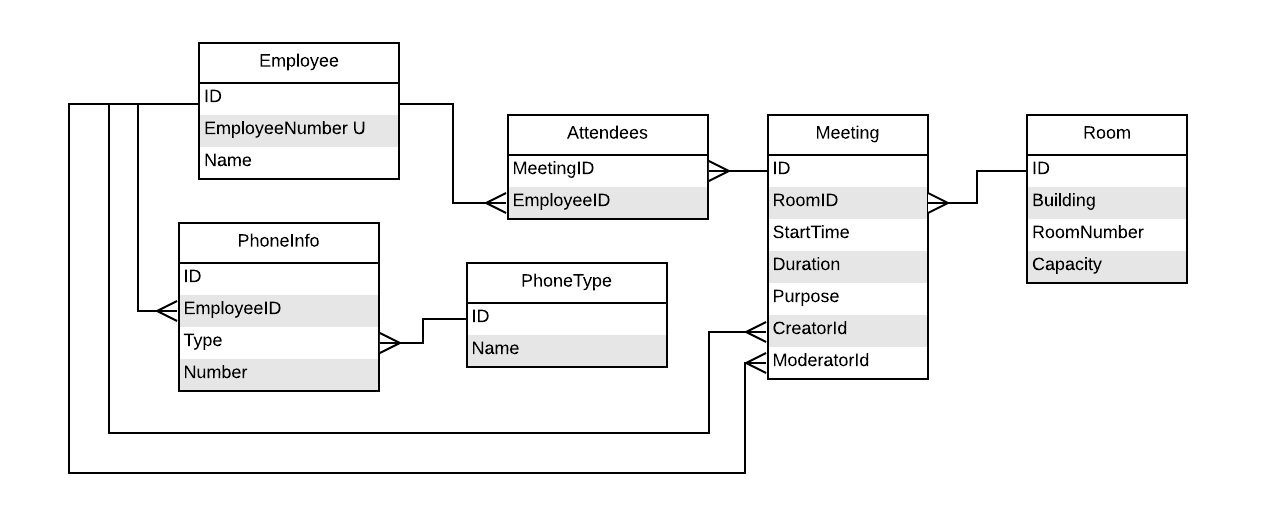
SELECT meeting.purpose, employee.name, employee.employeenumber

FROM meeting

JOIN employee ON meeting.moderatorid = employee.id

WHERE employee.employeenumber IN ( 'X311248', 'X311237')

ORDER BY meeting.starttime;



**Expected Output:**

ALTER SEQUENCE

ALTER SEQUENCE

BEGIN

#1 Add a new employee. Name = Farquar WorkPhone = 9876

HomePhone = 3333 EmployeeNumberX476543

Do not set the ID - let the system do that for you

Code Check.

id

----

20

(1 row)

INSERT 0 1

INSERT 0 2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

employeenumber | name | name | number

----------------+---------+------+----------

X476543 | Farquar | Home | 456-3333

X476543 | Farquar | Work | 123-9876

(2 rows)

#2 Add two new employees in a single statement.

Name = Amy EmployeeNumber X412345

Name = Bert EmployeeNumber X412346

INSERT 0 2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

employeenumber | name

----------------+---------

X412345 | Amy

X412346 | Bert

X476543 | Farquar

(3 rows)

#3 Add phone numbers for Amy. Do NOT use Employee.ID in your command

Amy Pager ( P) 345-3456 Business ( B) 123-4567

INSERT 0 2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

employeenumber | name | phonetype | number

----------------+---------+-----------+----------

X412345 | Amy | Business | 123-4567

X412345 | Amy | Pager | 345-3456

X476543 | Farquar | Home | 456-3333

X476543 | Farquar | Work | 123-9876

(4 rows)

#4 Change Amys name to Ardvark Again do not use the surrogate key.

Do not assume there is only one Amy in the DB

UPDATE 1

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

employeenumber | name

----------------+---------

X412345 | Ardvark

X412346 | Bert

X476543 | Farquar

(3 rows)

#5 Delete the employee with employee number = X412346;

DELETE 1

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employeenumber | name

----------------+---------

X412345 | Ardvark

X476543 | Farquar

(2 rows)

#6 Delete employee X412345 from the database. This will take two commands.

Do not use a surrogate key.

DELETE 2

DELETE 1

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

employeenumber | name

----------------+---------

X476543 | Farquar

(1 row)

#7 Add two new employees "New1" and "New2"

with employeeNumber "X434567" and " X434568" respectively

INSERT 0 2

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

employeenumber | name

----------------+------

X498765 | New1

X498989 | New2

(2 rows)

#8 Using the name field. give New1 and New2

A business number ( 123-4567) Same number to both employees

Do this in a single command

INSERT 0 2

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employeenumber | name | name | number

----------------+---------+----------+----------

X476543 | Farquar | Work | 123-9876

X476543 | Farquar | Home | 456-3333

X498765 | New1 | Business | 123-4567

X498989 | New2 | Business | 123-4567

(4 rows)

#9 Create a meeting ( New Employee Orientation ) with room A-104

on 2019-04-05 at 3:00 PM for One hour.

Created by Sarah ( X311234) Moderated by Ariel (X311239)

INSERT 0 1

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

roomnumber | building | starttime | duration | purpose | creator

------------+----------+---------------------+----------+--------------------------+---------

103 | A | 2018-03-04 09:30:00 | 01:00:00 | Staff | Winston

101 | A | 2018-03-04 09:30:00 | 01:00:00 | Staff | Alice

102 | A | 2018-03-07 09:30:00 | 01:00:00 | Team Build | Alice

202 | B | 2018-03-07 11:30:00 | 01:30:00 | HR Presentation | Jack

201 | B | 2018-03-09 09:30:00 | 01:00:00 | DB Issues | Ariel

101 | A | 2018-03-11 09:30:00 | 01:00:00 | Staff | Alice

201 | B | 2018-03-15 09:30:00 | 01:00:00 | Post Mortem | Dan

104 | A | 2018-03-17 11:00:00 | 01:30:00 | Sales | Winston

103 | A | 2018-03-18 09:30:00 | 01:00:00 | Staff | Winston

101 | A | 2018-03-18 09:30:00 | 01:00:00 | Staff | Alice

101 | B | 2018-03-21 12:00:00 | 01:00:00 | Lunch | Alice

101 | A | 2018-03-25 09:30:00 | 01:00:00 | Staff | Alice

101 | B | 2018-03-28 12:00:00 | 01:00:00 | PlanningLunch | Winston

101 | B | 2018-03-28 12:00:00 | 01:00:00 | Lunch | Alice

101 | B | 2018-04-05 12:00:00 | 01:00:00 | Lunch | Alice

104 | A | 2018-04-17 11:00:00 | 01:30:00 | Sales | Winston

104 | A | 2018-05-15 09:30:00 | 01:00:00 | Post Mortem | Dan

104 | A | 2018-05-17 11:00:00 | 01:30:00 | Sales | Winston

104 | A | 2019-04-05 15:00:00 | 01:00:00 | New Employee Orientation | Sarah

(19 rows)

#10 Add X476543, X498765, X498989 - to the "New Employee" meeting.

Do not use the PK of the meeting ( use the name)

INSERT 0 3

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

name | employeenumber

---------+----------------

Farquar | X476543

New1 | X498765

New2 | X498989

(3 rows)

#11 Move the time of all staff meetings 30 minutes into the future

with a single command

UPDATE 6

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id | roomid | starttime | duration | purpose | creatorid | moderatorid

-----+--------+---------------------+----------+---------+-----------+-------------

101 | 201 | 2018-03-04 10:00:00 | 01:00:00 | Staff | 14 | 14

105 | 203 | 2018-03-04 10:00:00 | 01:00:00 | Staff | 3 | 4

102 | 201 | 2018-03-11 10:00:00 | 01:00:00 | Staff | 14 | 14

103 | 201 | 2018-03-18 10:00:00 | 01:00:00 | Staff | 14 | 14

106 | 203 | 2018-03-18 10:00:00 | 01:00:00 | Staff | 3 | 4

104 | 201 | 2018-03-25 10:00:00 | 01:00:00 | Staff | 14 | 14

(6 rows)

#12 Delete Forquar from all meetings.

DELETE 1

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

name | employeenumber

------+----------------

New1 | X498765

New2 | X498989

(2 rows)

#13 Change the moderator for the New Employee meeting to Albert ( X311248)

UPDATE 1

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

purpose | moderator

--------------------------+-----------

New Employee Orientation | Albert

(1 row)

#14 Wherever X311248 ( Albert) is moderator of a meeting,

Change to X311237 ( max)

UPDATE 4

purpose | name | employeenumber

--------------------------+------+----------------

Staff | Max | X311237

Team Build | Max | X311237

Post Mortem | Max | X311237

Sales | Max | X311237

Staff | Max | X311237

PlanningLunch | Max | X311237

Sales | Max | X311237

Post Mortem | Max | X311237

Sales | Max | X311237

New Employee Orientation | Max | X311237

(10 rows)

ROLLBACK