**Homework #01**

CSS-475

John Chenault

Homework 01 Lecture 03

Using Database db01

100 points

Goal – Give the student experience in writing simple queries using Select, Where and Order by

Implement the queries below using the db01 database

Work independently.

Put your queries into a submission file per earlier instructions. Name the file ‘Homework01.txt’

Use db01 for this homework.

Note – For full credit ( in addition to proper output)

* Follow the column naming exactly as specified.
* Be sure to follow the format rules we have talked about in class.
* Be aware that I may test your answers with a different data set. IE the correct answer is a query that returns the proper answer for any data set. Not just one that returns a proper answer for the data set provided.

The Bold text is what you should show for column names.

1 – **building room\_number** for all Rooms in the system. ( Note room\_number not roomnum)   
 Order By roomNumber, building

2 - **building room\_number capacity**  For all rooms with capacity between 10 through 15 inclusive

3 – **attendees** For the DB Issues meeting ( By attendees I mean the name of the Employee)

Order by attendee name

4 – **starttime duration purpose** for all of Winston’s meetings ( Where Winston is the creator of the meeting) Sort with earliest meeting date at the top of the list

5 – **starttime duration purpose building roomnum** for all meetings Alice is attending. Sort by Purpose and StartTime. For purpose, sort in reverse order ( Staff at top) For starttime order with earliest data at top.

**6 – name phone** For all employees. Sort by employee name. ‘A’ at the top of the list.

7 – **creator\_name purpose building room\_number meetingreason, starttime, duration** for all meetings owned by Alice   
Sort by starttime ( most recent data at top) ( note use of creator\_name and room\_number )

8 **– dept\_name emp\_name purpose building roomnum**  for all meetings in every department that starts with ‘Software’ where the meeting is in building ‘B’ Sort by dept\_name, emp\_name, purpose

9 – **creator\_name homephone** for every meeting organizer order by organizer\_name.

( Note – based on what we have talked about in class, you will have to present multiple lines for each organizer. If you want to read ahead and present only one line per organizer, feel free to have fun)

10 – **building roomnumber starttime** for every meeting. order by start time, roomnum ;

Diagram

Description automatically generated

**Expected output** Note – for problem #9 I show two possible solutions.

Student Name

#1

building | room\_number

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

A | 101

B | 101

A | 102

B | 102

A | 103

A | 104

B | 104

B | 201

B | 202

(9 rows)

#2

building | room\_number | capacity

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

A | 101 | 10

(1 row)

#3

attendees

-----------

Albert

Alice

Mark

Martha

(4 rows)

#4

starttime | duration | purpose

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

2018-03-04 09:30:00 | 00:45:00 | Staff

2018-03-17 11:00:00 | 01:30:00 | Sales

2018-03-18 09:30:00 | 00:45:00 | Staff

(3 rows)

#5

starttime | duration | purpose | building | roomnum

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

2018-03-04 09:30:00 | 00:45:00 | Staff | A | 101

2018-03-11 09:30:00 | 00:45:00 | Staff | A | 101

2018-03-18 09:30:00 | 00:45:00 | Staff | A | 101

2018-03-25 09:30:00 | 00:45:00 | Staff | A | 101

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

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

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

(7 rows)

#6

name | phone

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

Albert | 7234

Alice | 7233

Ariel | 134

Dan | 4501

Dave | 7229

Jack | 7230

James | 7231

John | 8314

Mark | 7228

Martha | 7232

Max | 3261

Sarah | 4592

Sarah | 7227

Winston | 7248

(14 rows)

#7

creator\_name | purpose | building | room\_number | meetingreason | starttime | duration

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

Alice | Staff | A | 101 | Staff | 2018-03-25 09:30:00 | 00:45:00

Alice | Staff | A | 101 | Staff | 2018-03-18 09:30:00 | 00:45:00

Alice | Staff | A | 101 | Staff | 2018-03-11 09:30:00 | 00:45:00

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

Alice | Staff | A | 101 | Staff | 2018-03-04 09:30:00 | 00:45:00

(5 rows)

#8

dept\_name | emp\_name | purpose | building | roomnum

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

Software Dev | Ariel | HR Presentation | B | 202

Software Dev | James | HR Presentation | B | 202

Software Dev | James | Post Mortem | B | 201

Software Dev | Sarah | HR Presentation | B | 202

Software Test | John | HR Presentation | B | 202

Software Test | Martha | DB Issues | B | 201

Software Test | Martha | HR Presentation | B | 202

Software Test | Martha | Post Mortem | B | 201

Software Test | Sarah | HR Presentation | B | 202

(9 rows)

#9

creator\_name | homephone

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

Alice | 341

Alice | 341

Alice | 341

Alice | 341

Alice | 341

Ariel | 336

Dan | 335

Jack | 342

Winston | 333

Winston | 333

Winston | 333

(11 rows)

#9 Optional answer

organizer\_name | homephone

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

Alice | 341

Ariel | 336

Dan | 335

Jack | 342

Winston | 333

(5 rows)

#10

building | roomnum | starttime

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

A | 101 | 2018-03-04 09:30:00

A | 103 | 2018-03-04 09:30:00

A | 102 | 2018-03-07 09:30:00

B | 202 | 2018-03-07 11:30:00

B | 201 | 2018-03-09 09:30:00

A | 101 | 2018-03-11 09:30:00

B | 201 | 2018-03-15 09:30:00

A | 104 | 2018-03-17 11:00:00

A | 101 | 2018-03-18 09:30:00

A | 103 | 2018-03-18 09:30:00

A | 101 | 2018-03-25 09:30:00

(11 rows)