Home Work 6: SQL FOR PROJECT MGT

# INTRODUCTION

You are a Project Manager in charge of moving polling devices from the legacy platform to the next\_gen platform as represented by the following tables of the same name. As a PM you have created the migration table and store the results of the project. The project is partially completed as shown in the data below.

The home work requires you to run the setup as shown below, then answer the included questions.

# DATA







# SETUP

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-- Homework 6 SETUP

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drop table legacy;

create table legacy

(

did integer primary key

, mac\_add varchar2(50)

, mac\_add\_short varchar2(20)

, bldg varchar2(50)

, floor varchar2(50)

, room varchar2(20)

);

Insert into legacy values (1076,'52-BA-26-F1-06-FD','52-BA','Chilling Station No. 3','1','100A');

Insert into legacy values (1000,'CB-59-84-F9-A5-2F','CB-59','Chilling Station No. 3','1','131C');

Insert into legacy values (1515,'67-5D-47-80-F0-21','67-5D','Chilling Station No. 3','1','132D');

Insert into legacy values (1308,'8E-76-EA-1E-9F-9A','8E-76','Main Building','3','300');

Insert into legacy values (1407,'9C-86-3C-6D-26-A8','9C-86','Main Building','3','300');

Insert into legacy values (1103,'C2-D5-C6-ED-4E-BD','C2-D5','Main Building','1','101');

Insert into legacy values (1274,'D6-93-2A-5A-8C-CF','D6-93','Computational Resource Building','1','101');

Insert into legacy values (1303,'8A-F3-2D-D1-74-1D','8A-F3','Computational Resource Bldg','1','2020');

Insert into legacy values (1070,'F2-71-90-29-AF-7D','F2-71','Computer Science Building','1','101');

Insert into legacy values (1585,'E6-A1-D1-9F-6C-54','E6-A1','Computational Resource Building','1','101');

Insert into legacy values (1060,'AF-1E-2A-79-F7-F1','AF-1E','Computer Lab','2','A-876');

Insert into legacy values (9568,'FD-72-36-3D-EC-BD','FD-72','Chilling Station No. 3','1','3-100');

Insert into legacy values (54888,'F2-54-B8-CA-83-0F','F2-54','Chilling Station No. 3','1','3-131');

Insert into legacy values (22759,'B2-D5-C9-D8-C7-D0','B2-D5','Chilling Station No. 3','1','3-132');

Insert into legacy values (1231226,'49-CD-84-73-28-10','49-CD','Computational Resource Building','1','101');

Insert into legacy values (1112495,'43-B2-04-70-83-79','43-B2','Computational Resource Building','1','101');

Insert into legacy values (936392,'92-E1-F7-91-8F-56','92-E1','Computational Resource Building','1','101');

Insert into legacy values (1256878,'72-B3-09-28-31-94','72-B3','Computational Resource Building','4','101');

Insert into legacy values (1124,'60-C4-F4-0F-5C-11','60-C4','Computational Resource Building','5','101');

drop table next\_gen;

create table next\_gen

(

device\_id integer primary key

, mac\_address varchar2(50)

, mac\_short varchar2(20)

, building varchar2(200)

, floor varchar2(20)

, room varchar2(200)

);

Insert into next\_gen values (1050640,'72-B3-09-28-31-94','72-B3','Computational Resource Building','1','101');

Insert into next\_gen values (975338,'60-C4-F4-0F-5C-11','60-C4','Computational Resource Building','1','101');

Insert into next\_gen values (1363865,'D6-93-2A-5A-8C-CF','D6-93','University Police Building','12','303');

Insert into next\_gen values (1115481,'8A-F3-2D-D1-74-1D','8A-F3','University Police Building','12','304');

Insert into next\_gen values (1611026,'F2-71-90-29-AF-7D','F2-71','University Police Building','12','305');

Insert into next\_gen values (1507261,'E6-A1-D1-9F-6C-54','E6-A1','Main Campus Building','1','420');

Insert into next\_gen values (1523218,'AF-1E-2A-79-F7-F1','AF-1E','Main Campus Building','1','400');

Insert into next\_gen values (275895,'96-DD-88-73-28-10','96-DD','Engineering-Science Building','5','516');

Insert into next\_gen values (2444546,'33-A2-40-07-83-79','33-A2','Engineering-Science Building','2','212');

drop table migration\_stg;

create table migration\_stg

(

migration\_id integer primary key

, mac varchar2(50)

, mac\_short varchar2(20)

, from\_b varchar2(200)

, from\_flr varchar2(20)

, from\_rm varchar2(200)

, to\_b varchar2(200)

, to\_flr varchar2(20)

, to\_rm varchar2(200)

, start\_date varchar2(200)

, end\_date varchar2(200)

);

Insert into migration\_stg values (252,'D6-93-2A-5A-8C-CF','D6-93','Computational Resource Building','1','101','University Police Building','12','303','25-MAY-2016 05:22:12 pm','26-MAY-2016 10:05:30 am');

Insert into migration\_stg values (253,'8A-F3-2D-D1-74-1D','8A-F3','Computational Resource Bldg','1','2020','University Police Building','12','304','25-MAY-2016 10:00:44 am','26-MAY-2016 10:15:45 pm');

Insert into migration\_stg values (254,'F2-71-90-29-AF-7D','F2-71','Computer Science Building','1','101','University Police Building','12','305','26-MAY-2016 07:05:44 am','26-MAY-2016 01:22:01 pm');

Insert into migration\_stg values (255,'E6-A1-D1-9F-6C-54','E6-A1','Computational Resource Building','1','101','Main Campus Building','1','420','25-MAY-2016 05:22:12 pm','26-MAY-2016 10:05:30 am');

Insert into migration\_stg values (256,'AF-1E-2A-79-F7-F1','AF-1E','Computer Lab','2','A-876','Main Campus Building','1','400','26-MAY-2016 02:32:44 pm','27-MAY-2016 05:55:12 am');

Insert into migration\_stg values (257,'72-B3-09-28-31-94','72-B3','Computational Resource Building','4','101','Computational Resource Building','1','101','27-MAY-2016 03:31:16 am','28-MAY-2016 11:05:22 pm');

Insert into migration\_stg values (258,'60-C4-F4-0F-5C-11','60-C4','Computational Resource Building','5','101','Computational Resource Building','1','101','27-MAY-2016 09:12:52 am','27-MAY-2016 05:30:10 am');

Insert into migration\_stg values (259,'67-5D-47-80-F0-21','67-5D','Chilling Station No. 3','1','132D',null,null,null,'28-MAY-2016 03:01:32 pm',null);

Insert into migration\_stg values (260,'B2-D5-C9-D8-C7-D0','B2-D5','Chilling Station No. 3','1','3-132',null,null,null,'28-MAY-2016 05:22:16 am',null);

Insert into migration\_stg values (261,'43-B2-04-70-83-79','43-B2','Computational Resource Building','1','101',null,null,null,'29-MAY-2016 02:07:49 pm',null);

Insert into migration\_stg values (262,'49-CD-84-73-28-10','49-CD','null','null','null','Engineering-Science Building','5','516','25-MAY-2016 07:22:12 am','25-MAY-2016 10:55:10 am');

Insert into migration\_stg values (263,'33-A2-40-07-83-79','33-A2','null','null','null','Engineering-Science Building','2','212','25-MAY-2016 11:15:59 am','25-MAY-2016 01:01:47 pm');

commit;

drop table migration;

create table migration

( migration\_id integer primary key

,mac varchar2(50)

,mac\_short varchar2(20)

,from\_b varchar2(200)

,from\_flr varchar2(20)

,from\_rm varchar2(200)

,to\_b varchar2(200)

,to\_flr varchar2(20)

,to\_rm varchar2(200)

,start\_date date

,end\_date date

);

insert into migration

select migration\_id

,mac

,mac\_short

,from\_b

,from\_flr

,from\_rm

,to\_b

,to\_flr

,to\_rm

,to\_date(start\_date,'dd-MON-yyyy hh:mi:ss pm')

,to\_date(end\_date,'dd-MON-yyyy hh:mi:ss pm')

from migration\_stg;

commit;

# QUESTIONS

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-- Homework 6 QUESTIONS

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-- Question 1

-- Display all information for devices in both legacy and next\_gen

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-- Question 2

-- Display all information for devices in legacy but not yet in next\_gen

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-- Question 3

-- Display all information for new devices never in legacy but now in next\_gen

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-- Question 4

-- How much longer until project completion: based on average time to move a device and how many devices still need to be moved

-- NOTE: Each device is moved one at a time,

-- there is no overlap in time.

-- If it takes an average of 2 hours to move a device and there are 5 more devices to move

-- the total time to project completion is 2 \* 5 = 10 hours