# Week 7 Assignment

#### #1 Create Database

new database named programmap

## #2 Create Tables

```
CREATE TABLE programs(

prog_id SERIAL PRIMARY KEY,

program_name VARCHAR,

acctexec VARCHAR);
```

#### #3 Insert Data

```
INSERT INTO programs(program_name, acctexec) VALUES
```

```
('National Labratory', 'Joe Swindler'),
('Neverending Claims Program', 'Ignor Failure')
('New Program', 'TBD');
```

INSERT INTO projects(proj\_name, program\_id, wbs\_code, change\_order, startdate, enddate) VALUES

```
('Lab Systems', 1, 'KT12345', 1, '2008-01-01', '2014-12-31'),

('Lab NICE', 1, 'KT55642', 0, '2009-04-12', '2013-09-30'),

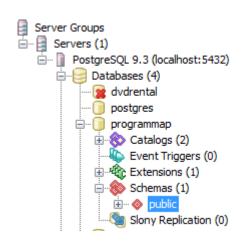
('Claims Systems', 1, 'KTIGNOR', 3, '2004-03-01', '2015-12-31'),

('Claims Nextgen Ibr', 2, 'KT99998', 0, '2013-01-01', '2017-12-31')

('Claims Hawaii', 2, 'KT99998', NULL, '2014-01-01', '2018-12-31');
```

	prog_id [PK] serial	program_nan	acctexec character vai
1	1	National La	Joe Swindle
2	2	Neverending	Ignor Failu
3	3	New Program	TBD
*			

	proj_id [PK] serial	proj_name character vai	program_id integer	wbs_code character(7)	change_orde integer	startdate date	enddate date
1	1	Lab Systems	1	KT12345	1	2008-01-01	2014-12-31
2	2	Lab NICE	1	KT55642	0	2009-04-12	2013-09-30
3	3	Claims Syst	1	KTIGNOR	3	2004-03-01	2015-12-31
4	4	Claims Next	2	KT99998	0	2013-01-01	2017-12-31
5	6	Claims Hawa	2	KT99998		2014-01-01	2018-12-31
*							



### #4 Joins

#### Inner Join

SELECT program\_name, proj\_name, wbs\_code FROM projects INNER JOIN programs ON prog\_id = program\_id

INNER JOIN programs ON prog\_id = program\_ic WHERE wbs\_code IS NOT NULL;

apus pane					
Data Output Explain Messages History					
	program_name character varying	proj_name character varying	wbs_code character(7)		
1	National Labratory	Lab Systems	KT12345		
2	National Labratory	Lab NICE	KT55642		
3	National Labratory	Claims Systems	KTIGNOR		
4	Neverending Claims Program	Claims Nextgen 1br	KT99998		
5	Neverending Claims Program	Claims Hawaii	KT99998		

#### Left Join

SELECT program\_name, acctexec, proj\_name, startdate FROM programs

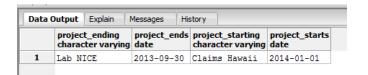
LEFT JOIN projects ON prog\_id = program\_id;

Data	Output Explain Messages History	/		
	program_name character varying	acctexec character varying	proj_name character varying	startdate date
1	National Labratory	Joe Swindler	Lab Systems	2008-01-01
2	National Labratory	Joe Swindler	Lab NICE	2009-04-12
3	National Labratory	Joe Swindler	Claims Systems	2004-03-01
4	Neverending Claims Program	Ignor Failure	Claims Nextgen 1br	2013-01-01
5	Neverending Claims Program	Ignor Failure	Claims Hawaii	2014-01-01
6	New Program	TBD		

### Self Join

SELECT A.proj\_name AS project\_ending,
A.enddate AS project\_ends,
B.proj\_name AS project\_starting,
B.startdate AS project\_starts

FROM projects A, projects B WHERE A.enddate < B.startdate;



# #5 ER diagram

