

Querying Oracle from Client Applications

Outline

(1) Linking ArcView to external database engines

- SQL Connect and Database connectivity extensions
- Solving the MA population density problem (from the first lecture)
- Mapping zoning variances (preview of Lab #5)

(2) Creating 'pin maps' from tabular X/Y data (preview of Lab #5)

- Event themes in ArcView
- Converting lat/lon data - zoning and EPA envirofacts examples
- Projecting zoning data to Mass State Plane coordinates

MA Density Example

```
<<Use SQL in Oracle to handle one-to-many problems
that arise
  because the population total for each town is
associated
  with each of the polygons (such as Boston islands)
that
  comprise a Massachusetts Town.>>
```

```
sqlplus
connect zoning/xxxx
```

```
<<examine selected columns from matowns2000, brought
into
  Oracle by exporting from ArcView into INFO table
and
  using ArcInfo connection to Oracle>>
```

```
describe matowns2000
```

Name	Null?	Type
AREA		NUMBER (63)
TOWN_ID		NUMBER (38)
TOWN		VARCHAR2 (21)
POP80		NUMBER (38)
POP90		NUMBER (38)
POP_CH		NUMBER (38)

```

create view matown2000tot as
select town_id, town, max(pop90) pop90, sum(area)
area,
      10000*max(pop90)/sum(area) pop_hect
  from matowns2000
 where town_id > 0
 group by town_id, town;

```

<<pull this View into ArcView using SQL Connect>>