



Object-Relational SQL

CIS 4301

Lecture Notes

4/20/2006



Outline

- User-Defined Data Types
- Operations on Object-Relational Data



Sample Problem

- Dept of WR management in CA maintains database of images
 - 40,000 digitized images, need to classify images electronically

```
create table slides (  
  idint,  
  date      date,  
  caption   varchar(255),  
  picture   photo_CD_image);
```

```
create table landmarks  
(  
  name  
  varchar(50),  
  location  
  point);
```

- Query: Find all sunset pictures taken within 20 miles of Sacramento

```
SELECT id  
FROM   slides P, landmarks L, landmarks S  
WHERE  sunset (P.picture) and contains (P.caption, L.name) and  
       L.location || S.location and S.name = 'Sacramento';
```