Overview

- TA details
- Class systems poll
- Microsoft SQL Server
- CGI Programming
- Course project overview

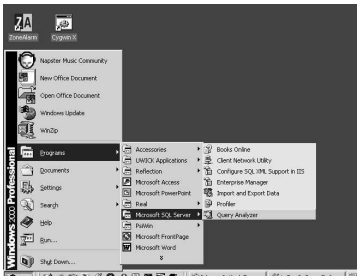
Your TA

- Gerome Miklau gerome@cs
- Office hours: Monday, 2:30-3:30 Sieg 226a
- come see me in office hours!
- use the mailing list!

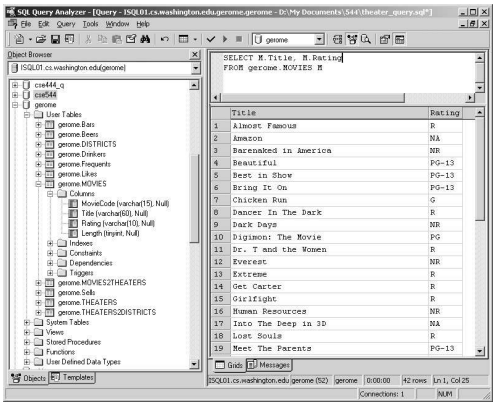
Systems Poll

- Java or C/C++ ?
- Unix tools: shell programming, makefiles, ..
- Perl
- HTML
- dynamic HTML: cgi, asp, php
- database systems?

SQL Server: Query Analyzer



SQL Server: Login



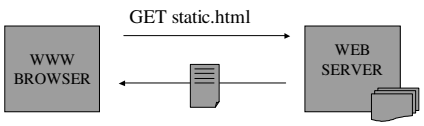
CGI Programming

- CGI: common gateway interface
- a program executed by web server, returning web content

Static HTML

www.cs.washington.edu/static.html

```
<html>
<h1> I love databases! </h1>
</html>
```

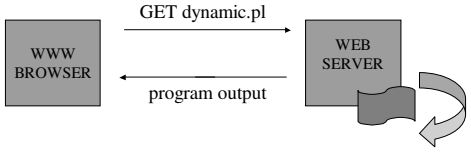


"Dynamic" HTML w/ PERL

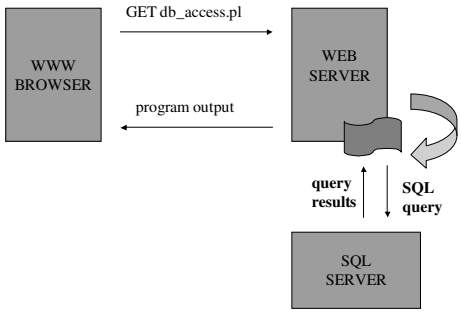
www.cs.washington.edu/dynamic.pl

CGI Program

```
#!/usr/bin/perl
print "Content-type: text/html \n";
print "<html>\n";
print "<h1> I love databases! </h1> \n";
print "</html>\n";
```



Dynamic HTML w/ DB



DB connection from Perl

```
#!/usr/bin/perl5 -w
use CGI; use DBI;
$html = new CGI;
print $html->header,
"\n",
$html->start_html();
print $html->end_html;
```

```
sub searchDatabase
{
$sql = "SELECT * FROM Elections2000";
$db = DBI->connect
("dbi:Sybase:server=ISQL01",
"cse444", "password");
$db or die "Sorry we couldn't
        connect!\n";
$sth = $db->prepare($sql);
$sth->execute();
$row = "";
while ($row = $sth-> fetchrow_
        hashref()) {
$rec1 = $row->{lname};
print "Record 1 = $rec1<p>"; } }
```

Cubist

- CGI programs are not allowed by cs web server
- Special server: CUBIST
- Your account will have directory www
- Accessed as
  - cubist.cs.washington.edu/~username/index.html

Community Calendar: sample event

- start: `October 14, 2001, 2:30pm`
- end: `October 14, 2001, 3:30pm`
- description: `chess tournament with db group`
- owner: `gerome`
- a list of attendees: `{joe, uw-db, chess-players}`
- priority: `3`

Community Calendar

- schedule events for users and groups
  - allocate resources
- web interface
  - view week at a time
  - add/modify event, manage groups
- email interface
  - submit events via email containing XML
- calendar actions - notifications

Possible Actions

- Notify me 1 hour before a certain event.
- Notify me if an event is added which applies to a group to which I belong.
- Notify me if I have conflicts in my schedule.
- Send me an email each evening summarizing my schedule for the next day.

Project Milestones

- October 15: Groups formed (email me)
- next week project description will have complete calendar of milestones.