Course Project
# Philadelphia, PA to Cleveland, OH
Fri Mar 19 2010 - Mon Mar 22 2010

$49* to Cleveland
Promo for Cleveland Flights. Today Only! Tickets from $49.
FareSpotter.net/Cleveland+Flights

## 358 of 358 roundtrips shown show matrix

<table>
<thead>
<tr>
<th>Price*</th>
<th>Airline</th>
<th>Takeoff</th>
<th>Landing</th>
<th>Stops (Duration)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>$294</strong></td>
<td>Continental</td>
<td>PHL 1:15p</td>
<td>CLE 2:40p</td>
<td>0 (1h 25m)</td>
</tr>
<tr>
<td><strong>$310</strong></td>
<td>Continental</td>
<td>CLE 7:05p</td>
<td>PHL 8:27p</td>
<td>0 (1h 22m)</td>
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<tr>
<td><strong>$294</strong></td>
<td>Continental</td>
<td>CLE 12:30p</td>
<td>PHL 1:52p</td>
<td>0 (1h 22m)</td>
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<tr>
<td><strong>$294</strong></td>
<td>Continental</td>
<td>CLE 11:20a</td>
<td>PHL 12:42p</td>
<td>0 (1h 22m)</td>
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Select

**Stops**
- nonstop $294
- 1 stop $310
- 2+ stops $496

**Flight Times**
- Take-off (Depart Flight) Fri 5:30a – 10:00p
- Take-off (Return Flight) Mon 6:00a – 9:00p

**Airlines**
- American Airlines only $400
- Continental only $294
## Flight Information

### Depart - Fri Mar 19 2010

- **Site**: Midwest
- **Airfare**: $270.00
- **Taxes/Fees**: $39.80
- **Total**: $309.80

**Flight Details**
- **Flight 1455**
  - **Departure**: 2:12p
  - **Destination**: Philadelphia (PHL)
  - **Arrival**: 3:35p
  - **Airline**: Midwest Airlines
  - **Type**: Regional Jet
  - **Fare Code**: R2YXN/WMA
  - **Duration**: 2h 23m
  - **Distance**: 688 miles
  - **Layover**: Milwaukee-Mitchell (MKE) for 2h 55m

### Return - Mon Mar 22 2010

- **Site**: Midwest
- **Airfare**: $270.00
- **Taxes/Fees**: $39.80
- **Total**: $309.80

**Flight Details**
- **Flight 1323**
  - **Departure**: 9:58a
  - **Destination**: Hopkins Intl (CLE)
  - **Arrival**: 10:15a
  - **Airline**: Midwest Airlines
  - **Type**: Regional Jet
  - **Fare Code**: R2YXN/WMA
  - **Duration**: 1h 17m
  - **Distance**: 327 miles
Project Phases

1. ER diagram (March 11\textsuperscript{th})
2. Relational model; MySQL implementation and data import (March 25\textsuperscript{th} (tentative))
3. User-level application (May 11\textsuperscript{th})
   - Does not have to be a web app
   - Use any language you like, as long as it can interface with MySQL

• Detailed enterprise requirements have been posted on the course web site
  – Please read carefully and ask questions!
ER Diagram

• Create a full ER diagram with all necessary entity sets, relationship sets, and constraints
• Provide a written document justifying your design decisions
  – Sometimes justification is easy (e.g. an entity set for airlines is obvious)
  – In some cases you may have to choose between a few possible alternatives
Assorted Details

• You may work alone or in pairs
• A nicely-printed ER diagram would be appreciated
  – I suggest using Word/PowerPoint or Pages
• The requirements cover all three phases
  – There will be many non-conceptual details you can ignore for the first phase
    • Though you may want to think about how those details might influence your design