

**CS 386: Quiz 3, 25 April 2006**Name: KEY

No books or notes. Work individually.

All three questions involve a database about student organizations, with two tables:  
 Clubs(name office phone) and Events(sponsor title date location length).  
 Give the result of each of the queries below using the following database instance.

Note: Two of the queries give the same result.

| club    | office | phone  |
|---------|--------|--------|
| sailing | SH 120 | 5-8772 |
| hiking  | NH 283 | 5-2313 |
| ACM     | EB 118 | 5-8116 |
| chess   | CH 442 | 5-1133 |

| sponsor | title         | date   | location | length |
|---------|---------------|--------|----------|--------|
| chess   | Speed chess   | 2 May  | SMSU 14  | 60     |
| chess   | Opening moves | 5 May  | SMSU 18  | 90     |
| ACM     | Python intro  | 9 May  | SH 120   | 30     |
| ACM     | Resume prep   | 4 June | EB 276   | 90     |

Question 1 (2.5 points): *Find events of maximum length (which is 90 minutes here)*

```

SELECT E1.title
FROM Events E1
WHERE E1.length >= ALL
  (SELECT E2.length
   FROM Events E2)

```

title  
Opening moves  
Resume prep

Question 2 (2.5 points): *Which clubs are not sponsors of events?*

```

SELECT C.name
FROM Clubs C
WHERE C.name NOT IN
  (SELECT E.sponsor
   FROM Events E)

```

name  
sailing  
hiking

Question 3 (2.5 points): *Which clubs do not have any events they are sponsoring? (=Q2)*

```

SELECT C.name
FROM Clubs C
WHERE NOT EXISTS
  (SELECT *
   FROM Events E
   WHERE E.sponsor = C.name)

```

same answer as above

Question 4 (2.5 points): *Which club has an event in its office that another club is sponsoring?*

```

SELECT C.name, C.office
FROM Clubs C
WHERE C.office = SOME
  (SELECT E.location
   FROM Events E
   WHERE E.sponsor <> C.Name)

```

name      office  
sailing      SH 120