1) How many records does this query return?

```
SELECT * FROM Pokemon;
```

Pokemon

<table>
<thead>
<tr>
<th>id</th>
<th>name</th>
<th>type</th>
<th>height_ft</th>
<th>weight_lbs</th>
<th>health_pts</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>Ponyta</td>
<td>Fire</td>
<td>3.03</td>
<td>66.1</td>
<td>60</td>
</tr>
<tr>
<td>56</td>
<td>Tyranitar</td>
<td>Dark</td>
<td>6.07</td>
<td>445.3</td>
<td>120</td>
</tr>
<tr>
<td>22</td>
<td>Vaporeon</td>
<td>Water</td>
<td>3.03</td>
<td>63.9</td>
<td>90</td>
</tr>
<tr>
<td>40</td>
<td>Charizard GX</td>
<td>Fire</td>
<td>5.07</td>
<td>199.5</td>
<td>250</td>
</tr>
</tbody>
</table>

a) 4  
b) 5  
c) 6  
d) 0
2) How many fields does this query return?

```
SELECT * FROM Pokemon;
```

Pokemon

<table>
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<tr>
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</table>

a) 4  
b) 5  
c) 6  
d) 0  

3) How many records does this query return?

SELECT * FROM Pokemon
WHERE type = 'Fire';

<table>
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<td>250</td>
</tr>
</tbody>
</table>
4) How many records does this query return?

SELECT * FROM Pokemon
WHERE type = 'Fire' OR type = 'Water';

Pokemon

<table>
<thead>
<tr>
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<th>health_pts</th>
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<td>250</td>
</tr>
</tbody>
</table>

a) 0  
b) 1  
c) 2  
d) 3
5) How many records does this query return?

```sql
SELECT * FROM Pokemon
WHERE height_ft = 3.03 AND health_pts >= 100;
```

<table>
<thead>
<tr>
<th>id</th>
<th>name</th>
<th>type</th>
<th>height_ft</th>
<th>weight_lbs</th>
<th>health_pts</th>
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<td>Fire</td>
<td>5.07</td>
<td>199.5</td>
<td>250</td>
</tr>
</tbody>
</table>

a) 0  
b) 1  
c) 2  
d) 3
SQL Queries: Basic Form

SELECT <list of desired fields>
FROM <single table>
WHERE <boolean condition>
SQL Queries: Basic Form

SELECT <list of desired fields>
FROM <single table>
WHERE <boolean condition>
ORDER BY <list of fields to sort on>
Example Database

Student(sid, fname, lname, dob)
Class(cno, cname, credits)
Teacher(tid, fname, lname, dept)
Example Database

Student(sid, fname, lname, dob)
Class(cno, cname, credits)
Teacher(tid, fname, lname, dept)

Takes(sid, cno, grade)
Teaches(tid, cno)
First Question

Who takes CS327E?

Student(sid, fname, lname, dob)
Class(cno, cname, credits)
Teacher(tid, fname, lname, dept)
Takes(sid, cno, grade)
Teaches(tid, cno)
First Question

Who takes CS327E?

SELECT sid
FROM Takes
WHERE cno = 'CS327E'

Student(sid, fname, lname, dob)
Class(cno, cname, credits)
Teacher(tid, fname, lname, dept)
Takes(sid, cno, grade)
Teaches(tid, cno)
BigQuery Demo
Second Question

*Who takes CS327E or CS329E?*

- Student($sid$, $fname$, $lname$, $dob$)
- Class($cno$, $cname$, $credits$)
- Teacher($tid$, $fname$, $lname$, $dept$)
- Takes($sid$, $cno$, $grade$)
- Teaches($tid$, $cno$)
Second Question

Who takes CS327E or CS329E?

```
SELECT sid
FROM Takes
WHERE cno = 'CS327E'
  OR cno = 'CS329E'
```
How many rows will this query return?

SELECT sid
FROM Takes
WHERE cno = 'CS327E'
  OR cno = 'CS329E'

A. 3 rows
B. 4 rows
C. 0 rows
Third Question

*Who takes CS327E and CS329E?*

Is this query a correct implementation?

```
SELECT sid
FROM Takes
WHERE cno = 'CS327E'
    AND cno = 'CS329E'
```
iClicker Question

*How many rows will this query return?*

```
SELECT sid
FROM Takes
WHERE cno = 'CS327E'
    AND cno = 'CS329E'
```

A. 0 rows  
B. 1 row  
C. > 1 rows

<table>
<thead>
<tr>
<th>sid</th>
<th>cno</th>
<th>grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>paulg</td>
<td>CS329E</td>
<td>A</td>
</tr>
<tr>
<td>paulg</td>
<td>CS326E</td>
<td>A-</td>
</tr>
<tr>
<td>paulg</td>
<td>CS313E</td>
<td></td>
</tr>
<tr>
<td>jerryh</td>
<td>CS327E</td>
<td>B</td>
</tr>
<tr>
<td>jerryh</td>
<td>CS329E</td>
<td>A-</td>
</tr>
<tr>
<td>kev18</td>
<td>CS329E</td>
<td></td>
</tr>
<tr>
<td>bzen26</td>
<td>CS313E</td>
<td>B+</td>
</tr>
</tbody>
</table>
BigQuery Demo
Milestone 2

http://www.cs.utexas.edu/~scohen/milestones/Milestone2.pdf