

## Halloween XP activity – Stephen’s solutions

1. What’s the average age of the kids who choose each costume?

```
select costume, avg(age) as mean_age from kids
  group by costume
 order by mean_age;
```

2. Which accessory is the most versatile?

```
select accessory, count(*) as num_costumes from costumes
  group by accessory
 order by num_costumes desc
 limit 1;
```

3. Who’s the youngest kid who needs a cape?

```
select child from kids, costumes
  where kids.costume = costumes.costume
     and costumes.accessory = 'cape'
 order by age asc
 limit 1;
```

4. Faith, Betty Lou, and Kiara are sisters. How much will their parents have to shell out for costumes this Halloween?

```
select sum(cost) from kids, costumes, items
  where kids.costume = costumes.costume
     and costumes.accessory = items.accessory
     and child in ('Faith', 'Betty Lou', 'Kiara');
```

5. Which costumes are so unpopular this year that nobody’s wearing them?

```
with popular_costumes as
  (select distinct costume from kids)
select costume from costumes where costume not in popular_costumes;
```

6. What are the four most expensive costumes this year, listed in cost order (most expensive first)?

```
with costume_costs as
  (select costume, sum(cost) as total_cost from costumes, items
   where costumes.accessory = items.accessory
   group by costume)
select costume from costume_costs order by total_cost desc limit 4;
```