

✓ 200 XP

Knowledge check

5 minutes

1. The IT team has a collection named *lotAlerts* with a shard key of *DeviceId*. The team need to add a pipeline to the aggregation to calculate the number of times each device created an alert. What type of *aggregation pipeline stage* would be used to calculate this count? *

☐ \$sum☒ \$group

✓ Correct. To calculate the count, the Devices will need to be grouped by the *DeviceId* property inside the *\$group* stage.

☐ \$unwind

2. When should data in the collections be embedded? *

☐ Embed when the data needs to be read or updated independently.☐ Embed when the data has 1:Many relationships.☒ Embed when the data is read or updated together.

✓ Correct. Data that's read or updated together is nearly always modeled as a single document. The benefit is especially true because our objective for our NoSQL model, is to reduce the number of requests to our database.

3. The customer application needs to run a query that searches by *lastName* and *firstName*. What type of index should be created that returns these documents quickly and also reduces the filtering and indexing costs? *

☐ Wildcard.☐ One compound index for the fields *lastName* and *firstName*.☒ One single field index for *lastName* and one single field index for *firstName*.

- ✓ Correct. Single indexes per field would have the same filtering cost as a compound index of those fields, but would have a lower indexing cost than the indexing cost of the compound index.
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