

```
// Select the database to use.
use('sample_airbnb');

// Write a filter to return all documents where the listed
property type is Chalet
// and the chalet has at least 1 bedroom.
db.listingsAndReviews.find({
  property_type: 'Chalet',
  bedrooms: { $gte: 1 }
});

// How many records are returned for question 1?
// 2
db.listingsAndReviews.countDocuments({
  property_type: 'Chalet',
  bedrooms: { $gte: 1 }
});

// Write a filter that returns all documents that are
located in Turkey
// and where the host is classified as a superhost.
db.listingsAndReviews.find(
  { 'address.country': 'Turkey',
    'host.host_is_superhost': true });

// How many records are returned for question 3?
// 50
db.listingsAndReviews.countDocuments({
  'address.country': 'Turkey',
  'host.host_is_superhost': true
});
```

```
// Write a filter to return all documents that can
accommodate exactly 2 people.
db.listingsAndReviews.find(
  { accommodates: { $eq: 2 }, extra_people : { $eq : 0.00 }
},
);

// How many records are returned for question 7?
// 1288
db.listingsAndReviews.countDocuments(
  { accommodates: { $eq: 2 }, extra_people: { $eq: 0.00 }
}
);
```

```
// Write a filter to return all documents where the
// cancellation policy is "moderate" and the price is less
than $50.
db.listingsAndReviews.find(
  {cancellation_policy: 'moderate', price: {$lte : 50}}
);

// How many records are returned for question 9?
// 256
db.listingsAndReviews.countDocuments(
  {cancellation_policy: 'moderate', price: {$lte : 50}}
);
```

```
// Write a filter to return all documents where the
amenities
// contain "TV" and "Wifi".
db.listingsAndReviews.find(
  { amenities: { $all: ["TV", "Wifi"] } }
);
```

```
// How many records are returned for question 11?
// 4140
db.listingsAndReviews.countDocuments(
  { amenities: { $all: ["TV", "Wifi"] } }
);
```

```
// Write a filter to return all documents where the number
of bedrooms is
// not provided(null or undefined).
const thirteen =
{
  $or: [
    { bedrooms: null },
    { bedrooms: undefined }
  ]
};
db.listingsAndReviews.find(thirteen);

// How many records are returned for question 13?
// 5
db.listingsAndReviews.find(thirteen).count();
```

```
// Write a filter to return all documents where the host
location is
// "Montreal, Quebec, Canada" and the host has been
verified via a
// "government_id" and a "phone".
```

```
const fifteen =
{
  'address.street': 'Montréal, Québec, Canada',
  'host.host_verifications': {
    $all: [
      "government_id",
      "phone"
    ]
  }
};
```

```
db.listingsAndReviews.find(fifteen);
```

```
// How many records are returned for question 15?
// 313
```

```
db.listingsAndReviews.find(fifteen).count();
```

```
// Write a filter to return all documents where the
property type is
// Serviced apartment and have a cleanliness review score >
9.
```

```
const seventeen =
{
  property_type: "Serviced apartment",
  'review_scores.review_scores_cleanliness': { $gt: 9
}
};
```

```
db.listingsAndReviews.find(seventeen);
```

```
// How many records are returned for question 17?
// 62
```

```
db.listingsAndReviews.find(seventeen).count();
```

```

// Write a filter to return all documents where
cancellation policy is
// "flexible" or "super_strict_60" and picture urls for
images are provided.
const nineteen =
{
  $or : [
    {cancellation_policy: 'flexible'},
    {cancellation_policy : 'super_strict_60'}
  ],
  'images.picture_url' : {$exists : true}
}
db.listingsAndReviews.find(nineteen);

// How many records are returned for question 19?
// 1761
db.listingsAndReviews.find(nineteen).count();

```

```

// Write a filter to return all documents mentioning the
word "clean" in the reviews and
// having a review score cleanliness greater than 9.
const twentyOne =
{
  'review_scores.review_scores_cleanliness': { $gt: 9 },
  'reviews.comments': {
    $regex: /clean/
  }
};
db.listingsAndReviews.find(twentyOne);

// How many records are returned for question 21?
// 1596
db.listingsAndReviews.find(twentyOne).count();

```

```
// Write a filter to return all documents with property
type "Resort"
// that have all of the following amenities: "Wifi", "Hot
tub", "Wheelchair accessible".
const twentyThree =
{
  property_type: "Resort",
  amenities: {
    $all : [
      "Wifi",
      "Hot tub",
      "Wheelchair accessible"
    ]
  }
}
db.listingsAndReviews.find(twentyThree);
```

```
// How many records are returned for question 23?
// 2
db.listingsAndReviews.find(twentyThree).count();
```

```
// Write a filter to return all documents where the host
name is "Ali",
// and the identity is verified.(host_identity_verified)
const twentyFive =
{
  'host.host_name': { $eq: "Ali" },
  "host.host_identity_verified" : true
}
db.listingsAndReviews.find(twentyFive);
```

```
// How many records are returned for question 25?
// 6
db.listingsAndReviews.find(twentyFive).count();
```

```
// Write a filter to return all documents where the first
amenity listed is "Wifi".
const twentySeven = {
  "amenities.0": "Wifi"
}
db.listingsAndReviews.find(twentySeven);
// How many records are returned for question 27?
// 811
db.listingsAndReviews.find(twentySeven).count();
```

```
// Write a filter to return all documents where one of the
amenities begins with the letter 'H'.
const twentyNine = {
  "amenities": {
    $regex: /^H/
  }
}
db.listingsAndReviews.find(twentyNine);
// How many records are returned for question 29?
// 5203
db.listingsAndReviews.find(twentyNine).count();
```

```
// Write a filter to return all documents.
const thirtyOne =
{

}
db.listingsAndReviews.find(thirtyOne);

// How many records are returned for question 31?
// 5555
db.listingsAndReviews.find(thirtyOne).count();
```

```
// Write a filter that returns all documents that have a
market equal to:
// "Hong Kong", "New York", "Porto", "Sydney" or
"Istanbul" in the address field.
const thirtyTwo = {
  $or: [
    { "address.market": "Hong Kong" },
    { "address.market": "New York" },
    { "address.market": "Porto" },
    { "address.market": "Sydney" },
    { "address.market": "Istanbul" }
  ]
};
db.listingsAndReviews.find(thirtyTwo);

// How many records are returned for question 33?
// 3049
db.listingsAndReviews.find(thirtyTwo).count();
```