Progression 2

1. All the companies whose name match 'Babelgum'. Retrieve only their name field.

db.companies.find({name : "Babelgum"} , {name :10})

Output:

```
> db.companies.find({name : "Babelgum"} , {name :1})

< { _id: ObjectId("52cdef7c4bab8bd675297da0"), name: 'Babelgum' }

> db.companies.find({name : "Babelgum"} , {name :10})

< { _id: ObjectId("52cdef7c4bab8bd675297da0"), name: 'Babelgum' }
```

2.All the companies that have more than 5000 employees. Limit the search to 20 companies and sort them by number of employees.

db.companies.find({number_of_employees : {$gte :5000}},{name : 1 ,number_of_employees : 1,_id:0}).sort({number_of_employees : 1}).limit(20)

Output :
{ name: 'JDS Uniphase Corporation', number_of_employees: 5000 }
{ name: 'PCH International', number_of_employees: 5000 }
{ name: 'Vcare Call Center', number_of_employees: 5000 }
{ name: 'United Internet', number_of_employees: 5000 }
{ name: 'McAfee', number_of_employees: 5000 }
{ name: 'Spotify', number_of_employees: 5000 }
{ name: 'Air Astana Airlines', number_of_employees: 5000 }
{ name: 'Nintendo', number_of_employees: 5080 }
{ name: 'Hexaware Technologies', number_of_employees: 5200 }
{ name: 'Facebook', number_of_employees: 5299 }
{ name: 'OpenText', number_of_employees: 5300 }
{ name: 'CPM Braxis', number_of_employees: 5400 }
{ name: 'LSI', number_of_employees: 5400 }
{ name: 'Microchip Technologies', number_of_employees: 5500 }
{ name: 'Mediaset', number_of_employees: 5729 }
{ name: 'Mindray Medical International',
 number_of_employees: 5763 }
{ name: 'Atmel', number_of_employees: 6000 }
{ name: 'Tata Communications', number_of_employees: 6000 }
{ name: 'Dentsu', number_of_employees: 6000 }
{ name: 'Baidu', number_of_employees: 6000 }

3.All the companies founded between 2000 and 2005, both years included. Retrieve only the name and founded_year fields.

db.companies.find({founded_year : {$in :[2000,2005]}},{name : 1 ,founded_year: 1,_id:0})

Output:

{ name: 'Wetpaint', founded_year: 2005 }
{ name: 'Zoho', founded_year: 2005 }
{ name: 'Omnidrive', founded_year: 2005 }
{ name: 'Helio', founded_year: 2005 }
{ name: 'Jingle Networks', founded_year: 2005 }
{ name: 'LifeLock', founded_year: 2005 }
{ name: 'Wesabe', founded_year: 2005 }
{ name: 'Jangl SMS', founded_year: 2005 }
{ name: 'Jajah', founded_year: 2005 }
{ name: 'YouTube', founded_year: 2005 }
{ name: 'Revision3', founded_year: 2005 }
{ name: 'iSkoot', founded_year: 2005 }
{ name: 'AllofMP3', founded_year: 2000 }
{ name: 'Steorn', founded_year: 2000 }
{ name: 'MeeVee', founded_year: 2000 }
{ name: 'ClipBlast!', founded_year: 2005 }
{ name: 'Zlio', founded_year: 2005 }
{ name: 'Dailymotion', founded_year: 2005 }
{ name: 'RockYou', founded_year: 2005 }
{ name: 'Instructables', founded_year: 2005 }

4.All the companies that had a Valuation Amount of more than 100.000.000 and have been founded before 2010. Retrieve only the name and ipo fields.

db.companies.find({'ipo.valuation_amount':{$gt:100000000},founded_year:{$lt:2010}},{name:1,ipo:1,_id:0})

Output:
{ name: 'Facebook',
  ipo:
   { valuation_amount: 104000000000,
     valuation_currency_code: 'USD',
     pub_year: 2012,
     pub_month: 5,
     pub_day: 18,
     stock_symbol: 'NASDAQ:FB' } }
{ name: 'Twitter',
  ipo:
   { valuation_amount: 18100000000,
     valuation_currency_code: 'USD',
     pub_year: 2013,
     pub_month: 11,

```
    pub_day: 7,
    stock_symbol: 'NYSE:TWTR' } }
{ name: 'Yelp',
  ipo:
   { valuation_amount: 1300000000,
     valuation_currency_code: 'USD',
     pub_year: 2012,
     pub_month: 3,
     pub_day: 2,
     stock_symbol: 'NYSE:YELP' } }
{ name: 'LinkedIn',
  ipo:
   { valuation_amount: 9310000000,
     valuation_currency_code: 'USD',
     pub_year: 2011,
     pub_month: 7,
     pub_day: 20,
     stock_symbol: 'NYSE:LNKD' } }
{ name: 'Amazon',
  ipo:
   { valuation_amount: 100000000000,
     valuation_currency_code: 'USD',
     pub_year: 1997,
     pub_month: 5,
     pub_day: null,
     stock_symbol: 'NASDAQ:AMZN' } }
{ name: 'Brightcove',
  ipo:
   { valuation_amount: 290000000,
     valuation_currency_code: 'USD',
     pub_year: 2012,
     pub_month: 2,
     pub_day: 17,
     stock_symbol: 'NASDAQ:BCOV' } }
{ name: 'KIT digital',
  ipo:
   { valuation_amount: 235000000,
     valuation_currency_code: 'USD',
     pub_year: 2010,
     pub_month: 7,
     pub_day: 27,
     stock_symbol: 'KITD' } }
{ name: 'Nielsen',
  ipo:
   { valuation_amount: 1600000000,
     valuation_currency_code: 'USD',
     pub_year: 2011,
     pub_month: 1,
     pub_day: 26,
     stock_symbol: 'NYSE:NLSN' } }
```

```
{ name: 'OpenTable',
  ipo:
   { valuation_amount: 1050000000,
     valuation_currency_code: 'USD',
     pub_year: 2009,
     pub_month: 5,
     pub_day: 21,
     stock_symbol: 'NASDAQ:OPEN' } }
{ name: 'ChannelAdvisor',
  ipo:
   { valuation_amount: 287000000,
     valuation_currency_code: 'USD',
     pub_year: 2013,
     pub_month: 5,
     pub_day: 23,
     stock_symbol: 'NYSE:ECOM' } }
{ name: 'Jive Software',
  ipo:
   { valuation_amount: 1000000000,
     valuation_currency_code: 'USD',
     pub_year: 2012,
     pub_month: 2,
     pub_day: 3,
     stock_symbol: 'NASDAQ:JIVE' } }
{ name: 'Zillow',
  ipo:
   { valuation_amount: 2550000000,
     valuation_currency_code: 'USD',
     pub_year: 2011,
     pub_month: 7,
     pub_day: 19,
     stock_symbol: 'NASDAQ:Z' } }
{ name: 'Wix',
  ipo:
   { valuation_amount: 750000000,
     valuation_currency_code: 'USD',
     pub_year: 2013,
     pub_month: 11,
     pub_day: 6,
     stock_symbol: 'NASDAQ:WIX' } }
{ name: 'Shutterfly',
  ipo:
   { valuation_amount: 350000000,
     valuation_currency_code: 'USD',
     pub_year: 2006,
     pub_month: 9,
     pub_day: 29,
     stock_symbol: 'SFLY' } }
{ name: 'TripAdvisor',
  ipo:
```

```
    { valuation_amount: 3273770000,
      valuation_currency_code: 'USD',
      pub_year: 2011,
      pub_month: 12,
      pub_day: 21,
      stock_symbol: 'TRIP' } }
{ name: 'Salesforce',
  ipo:
    { valuation_amount: 110000000,
      valuation_currency_code: 'USD',
      pub_year: 2004,
      pub_month: 7,
      pub_day: 2,
      stock_symbol: 'NYSE:CRM' } }
{ name: 'HomeAway',
  ipo:
    { valuation_amount: 3000000000,
      valuation_currency_code: 'USD',
      pub_year: 2011,
      pub_month: 6,
      pub_day: 29,
      stock_symbol: 'NASDAQ:AWAY' } }
{ name: 'QuinStreet',
  ipo:
    { valuation_amount: 140000000,
      valuation_currency_code: 'USD',
      pub_year: 2010,
      pub_month: 1,
      pub_day: 11,
      stock_symbol: 'NASDAQ:QNST' } }
{ name: 'Rackspace',
  ipo:
    { valuation_amount: 5440000000,
      valuation_currency_code: 'USD',
      pub_year: 2011,
      pub_month: 11,
      pub_day: 7,
      stock_symbol: 'RAX' } }
{ name: 'BMC Software',
  ipo:
    { valuation_amount: 6000000000,
      valuation_currency_code: 'USD',
      pub_year: 1988,
      pub_month: 8,
      pub_day: 12,
      stock_symbol: 'NASDAQ:BMC' } }
```

5.All the companies that have less than 1000 employees and have been founded before 2005. Order them by the number of employees and limit the search to 10 companies.

db.companies.find({number_of_employees:{$lt :1000},founded_year :{$lte : 2005}}, {number_of_employees:1}).limit(10)

Output:
{ name: 'Wetpaint', number_of_employees: 47 }
{ name: 'AdventNet', number_of_employees: 600 }
{ name: 'Digg', number_of_employees: 60 }
{ name: 'Fox Interactive Media', number_of_employees: 0 }
{ name: 'Plaxo', number_of_employees: 50 }
{ name: 'Technorati', number_of_employees: 35 }
{ name: 'AddThis', number_of_employees: 120 }
{ name: 'Jingle Networks', number_of_employees: 35 }
{ name: 'Meetup', number_of_employees: 75 }
{ name: 'LifeLock', number_of_employees: 644 }

6. All the companies that don't include the partners field.

db.companies.find({partners :{$exists:false}},{_id:0})

Output:

```
> db.companies.find({partners :{$exists:false}},{_id:0})
<
```

7.All the companies that have a null type of value on the category_code field.

db.companies.find({category_code : null},{_id:0,name:1,category_code:1})

Output:
{ name: 'Collective', category_code: null }
{ name: 'Snimmer', category_code: null }
{ name: 'KoolIM', category_code: null }
{ name: 'Level9 Media', category_code: null }
{ name: 'VidKing', category_code: null }
{ name: 'Drigg', category_code: null }
{ name: 'SpaceTime', category_code: null }
{ name: 'Touch Clarity', category_code: null }
{ name: 'MMDAYS', category_code: null }
{ name: 'Inside Group', category_code: null }
{ name: 'Repeater Store', category_code: null }
{ name: 'Tapesh', category_code: null }
{ name: 'iPersians', category_code: null }
{ name: 'NewPersia', category_code: null }

{ name: 'Pyra Labs', category_code: null }
{ name: 'Feedmap', category_code: null }
{ name: 'NuvoMedia', category_code: null }
{ name: 'Intwine', category_code: null }
{ name: 'The Weinstein Company', category_code: null }
{ name: 'ExecuNet', category_code: null }

8. All the companies that have at least 100 employees but less than 1000. Retrieve only the name and number of employees fields.

db.companies.find({number_of_employees :{$in:[100,1000]}},{name:1,number_of_employees:1,_id:0})

Output:

{ name: 'Redfin', number_of_employees: 100 }
{ name: 'Simply Hired', number_of_employees: 100 }
{ name: 'hi5', number_of_employees: 100 }
{ name: 'INgage Networks', number_of_employees: 100 }
{ name: 'Akamai Technologies', number_of_employees: 1000 }
{ name: 'mig33', number_of_employees: 100 }
{ name: 'Fon', number_of_employees: 100 }
{ name: 'EchoSign', number_of_employees: 100 }
{ name: 'TrialPay', number_of_employees: 100 }
{ name: 'Firetide', number_of_employees: 100 }
{ name: 'Omniture', number_of_employees: 1000 }
{ name: 'Verimatrix', number_of_employees: 100 }
{ name: 'Blyk', number_of_employees: 100 }
{ name: 'Yodle', number_of_employees: 1000 }
{ name: 'Survey Analytics', number_of_employees: 100 }
{ name: 'Social Gaming Network', number_of_employees: 100 }
{ name: 'Covario', number_of_employees: 100 }
{ name: '99designs', number_of_employees: 100 }
{ name: 'Elance', number_of_employees: 100 }
{ name: 'Vovici', number_of_employees: 100 }

9. Order all the companies by their IPO price in descending order.

db.companies.find({},{_id:0,name:1,'ipo.valuation_amount':1}).sort({'ipo.valuation_amount':-1})
Output:
{ name: 'GREE', ipo: { valuation_amount: 108960000000 } }
{ name: 'Facebook', ipo: { valuation_amount: 104000000000 } }
{ name: 'Amazon', ipo: { valuation_amount: 100000000000 } }
{ name: 'Twitter', ipo: { valuation_amount: 18100000000 } }
{ name: 'Groupon', ipo: { valuation_amount: 12800000000 } }
{ name: 'Tencent', ipo: { valuation_amount: 11000000000 } }
{ name: 'Western Digital',
  ipo: { valuation_amount: 9430000000 } }
{ name: 'LinkedIn', ipo: { valuation_amount: 9310000000 } }
{ name: 'BMC Software', ipo: { valuation_amount: 6000000000 } }

{ name: 'Rackspace', ipo: { valuation_amount: 5440000000 } }
{ name: 'Baidu', ipo: { valuation_amount: 4000000000 } }
{ name: 'TripAdvisor', ipo: { valuation_amount: 3273770000 } }
{ name: 'HomeAway', ipo: { valuation_amount: 3000000000 } }
{ name: 'Zillow', ipo: { valuation_amount: 2550000000 } }
{ name: 'Nielsen', ipo: { valuation_amount: 1600000000 } }
{ name: 'Yelp', ipo: { valuation_amount: 1300000000 } }
{ name: 'Chegg', ipo: { valuation_amount: 1100000000 } }
{ name: 'Chegg', ipo: { valuation_amount: 1100000000 } }
{ name: 'RPX Corporation',
  ipo: { valuation_amount: 1096000000 } }
{ name: 'Higher One', ipo: { valuation_amount: 1060000000 } }

10.Retrieve the ten companies with most employees, order by the number of employees

db.companies.find({},{name:1,number_of_employees:1,_id:0}).sort({number_of_employees:-1}).limit(10)

Output:
{ name: 'Siemens', number_of_employees: 405000 }
{ name: 'IBM', number_of_employees: 388000 }
{ name: 'Toyota', number_of_employees: 320000 }
{ name: 'PayPal', number_of_employees: 300000 }
{ name: 'Nippon Telegraph and Telephone Corporation',
  number_of_employees: 227000 }
{ name: 'Samsung Electronics', number_of_employees: 221726 }
{ name: 'Accenture', number_of_employees: 205000 }
{ name: 'Tata Consultancy Services',
  number_of_employees: 200300 }
{ name: 'Flextronics International',
  number_of_employees: 200000 }
{ name: 'Safeway', number_of_employees: 186000 }

11.All the companies founded in the second semester of the year. Limit your search to 1000 companies.

db.companies.find({founded_month:{$gt:6}},
{_id:0,name:1,founded_month:1,founded_year:1,founded_day:1}).limit(1000)

Output:
{ name: 'Wetpaint',
  founded_year: 2005,
  founded_month: 10,
  founded_day: 17 }
{ name: 'Zoho',
  founded_year: 2005,
  founded_month: 9,
  founded_day: 15 }
{ name: 'Digg',
  founded_year: 2004,
  founded_month: 10,
  founded_day: 11 }

```
{ name: 'Omnidrive',
  founded_year: 2005,
  founded_month: 11,
  founded_day: 1 }
{ name: 'eBay',
  founded_year: 1995,
  founded_month: 9,
  founded_day: 1 }
{ name: 'Joost',
  founded_year: 2006,
  founded_month: 10,
  founded_day: 1 }
{ name: 'Plaxo',
  founded_year: 2002,
  founded_month: 11,
  founded_day: 17 }
{ name: 'Powerset',
  founded_year: 2006,
  founded_month: 10,
  founded_day: null }
{ name: 'Kyte',
  founded_year: 2006,
  founded_month: 12,
  founded_day: 1 }
{ name: 'Thoof',
  founded_year: 2006,
  founded_month: 12,
  founded_day: 1 }
{ name: 'Jingle Networks',
  founded_year: 2005,
  founded_month: 9,
  founded_day: 1 }
{ name: 'LifeLock',
  founded_year: 2005,
  founded_month: 8,
  founded_day: 1 }
{ name: 'Wesabe',
  founded_year: 2005,
  founded_month: 12,
  founded_day: 1 }
{ name: 'SmugMug',
  founded_year: 2002,
  founded_month: 11,
  founded_day: 3 }
{ name: 'Google',
  founded_year: 1998,
  founded_month: 9,
  founded_day: 7 }
{ name: 'Skype',
  founded_year: 2003,
```

founded_month: 8,
    founded_day: null }
  { name: 'Pando Networks',
    founded_year: 2004,
    founded_month: 7,
    founded_day: null }
  { name: 'Ikan',
    founded_year: 2003,
    founded_month: 12,
    founded_day: 1 }
  { name: 'delicious',
    founded_year: 2003,
    founded_month: 9,
    founded_day: null }
  { name: 'AllPeers',
    founded_year: 2004,
    founded_month: 8,
    founded_day: 1 }

12.All the companies founded before 2000 that have an acquisition amount of more than 10.000.000

db.companies.find({founded_year:{$lte : 2000},acquisition : {$gte:10000}},{name:1,number_of_employees:1,_id:0})

Output:

```
> db.companies.find({founded_year:{$lte : 2000},acquisition : {$gte:10000}},{name:1,number_of_employees:1,_id:0})
<
```

13.All the companies that have been acquired after 2010, order by the acquisition amount, and retrieve only their name and acquisition field.

db.companies.find({founded_year:{$gte : 2010}},{name:1,acquisition:1,_id:0}).sort({price_amount:1})

Output:
{ name: 'Mokitown', acquisition: null }
{ name: 'CircleUp', acquisition: null }
{ name: 'PeekYou', acquisition: null }
{ name: 'GENWI', acquisition: null }
{ name: 'headr', acquisition: null }
{ name: 'Fixya', acquisition: null }
{ name: 'Wamba', acquisition: null }
{ name: 'Needium', acquisition: null }
{ name: 'Pinger', acquisition: null }
{ name: 'Widgetbox', acquisition: null }
{ name: 'RazorGator', acquisition: null }
{ name: 'Advaliant', acquisition: null }
{ name: 'Fluc', acquisition: null }
{ name: 'Social Gaming Network',
  acquisition:

```
{ price_amount: null,
  price_currency_code: 'USD',
  term_code: 'cash_and_stock',
  source_url: '',
  source_description: '',
  acquired_year: 2011,
  acquired_month: 4,
  acquired_day: 18,
  acquiring_company: { name: 'MindJolt', permalink: 'mindjolt' } } }
{ name: 'Quirk', acquisition: null }
{ name: 'YouNoodle', acquisition: null }
{ name: 'Mobiluck', acquisition: null }
{ name: 'Skydeck', acquisition: null }
{ name: 'Simplicant', acquisition: null }
{ name: 'Moblica', acquisition: null }
```

14.Order the companies by their founded year, retrieving only their name and founded year.

db.companies.find({},{name:1,founded_year:1,_id:0}).sort({founded_year:1})

Output:
```
{ name: 'Flektor', founded_year: null }
{ name: 'Lala', founded_year: null }
{ name: 'SpinVox', founded_year: null }
{ name: 'Gannett', founded_year: null }
{ name: 'Info', founded_year: null }
{ name: 'JotSpot', founded_year: null }
{ name: 'Mercora', founded_year: null }
{ name: 'NetRatings', founded_year: null }
{ name: 'There', founded_year: null }
{ name: 'Tun3r', founded_year: null }
{ name: 'PlaceBlogger', founded_year: null }
{ name: 'Cuts', founded_year: null }
{ name: 'Edgeio', founded_year: null }
{ name: 'revlayer', founded_year: null }
{ name: 'Parakey', founded_year: null }
{ name: 'PowerReviews', founded_year: null }
{ name: 'Going', founded_year: null }
{ name: 'WikiYou', founded_year: null }
{ name: 'DZOIC', founded_year: null }
{ name: 'CollegeWikis', founded_year: null }
```

15. All the companies that have been founded on the first seven days of the month, including the seventh. Sort them by their acquisition price in descending order. Limit the search to 10 documents.

db.companies.find({founded_day:{$lte:7}},
{_id:0,"acquisition.price_amount":1,name:1,founded_year:1,founded_month:1,founded_day:1}).sort({"acquisition.price_amount":-1}).limit(10)

Output:

```
{ name: 'Netscape',
  founded_year: 1994,
  founded_month: 4,
  founded_day: 4,
  acquisition: { price_amount: 4200000000 } }
{ name: 'PayPal',
  founded_year: 1998,
  founded_month: 12,
  founded_day: 1,
  acquisition: { price_amount: 1500000000 } }
{ name: 'Zappos',
  founded_year: 1999,
  founded_month: 1,
  founded_day: 1,
  acquisition: { price_amount: 1200000000 } }
{ name: 'Alibaba',
  founded_year: 1999,
  founded_month: 6,
  founded_day: 1,
  acquisition: { price_amount: 1000000000 } }
{ name: 'Postini',
  founded_year: 1999,
  founded_month: 6,
  founded_day: 2,
  acquisition: { price_amount: 625000000 } }
{ name: 'Danger',
  founded_year: 1999,
  founded_month: 12,
  founded_day: 1,
  acquisition: { price_amount: 500000000 } }
{ name: 'Clearwell Systems',
  founded_year: 2004,
  founded_month: 12,
  founded_day: 6,
  acquisition: { price_amount: 410000000 } }
{ name: 'PrimeSense',
  founded_year: 2005,
  founded_month: 5,
  founded_day: 1,
  acquisition: { price_amount: 345000000 } }
{ name: 'Amobee',
  founded_year: 2005,
  founded_month: 5,
  founded_day: 1,
  acquisition: { price_amount: 321000000 } }
{ name: 'BlueLithium',
  founded_year: 2004,
  founded_month: 1,
```

```
founded_day: 1,
acquisition: { price_amount: 300000000 } }
```

16. All the companies on the 'web' category that have more than 4000 employees. Sort them by the number of employees in ascending order.

db.companies.find({category_code:"web",number_of_employees:{$gte:4000}},
{_id:0,name:1,number_of_employees:1,category_code:1}).sort({number_of_employees:1})

Output:

```
{ name: 'Expedia',
  category_code: 'web',
  number_of_employees: 4400 }
{ name: 'AOL', category_code: 'web', number_of_employees: 8000 }
{ name: 'Webkinz',
  category_code: 'web',
  number_of_employees: 8657 }
{ name: 'Rakuten',
  category_code: 'web',
  number_of_employees: 10000 }
{ name: 'Los Angeles Times Media Group',
  category_code: 'web',
  number_of_employees: 10000 }
{ name: 'Groupon',
  category_code: 'web',
  number_of_employees: 10000 }
{ name: 'Yahoo!',
  category_code: 'web',
  number_of_employees: 13600 }
{ name: 'eBay',
  category_code: 'web',
  number_of_employees: 15000 }
{ name: 'Experian',
  category_code: 'web',
  number_of_employees: 15500 }
```

17.All the companies whose acquisition amount is more than 10.000.000 and the currency is 'EUR'.

db.companies.find({"acquisition.price_amount":{$gt:10000000}},{'acquisition.price_currency_code':"EUR"},
{_id:0,name:1,"acquisition.price_amount":1,"acquisition.price_currency_code":1})

Output:
```
{ _id: ObjectId("52cdef7c4bab8bd675297d8a"),
  acquisition: { price_currency_code: 'EUR' } }
{ _id: ObjectId("52cdef7c4bab8bd675297d90"),
  acquisition: { price_currency_code: 'EUR' } }
{ _id: ObjectId("52cdef7c4bab8bd675297d92"),
  acquisition: { price_currency_code: 'EUR' } }
```

```
{ _id: ObjectId("52cdef7c4bab8bd675297d95"),
  acquisition: { price_currency_code: 'EUR' } }
{ _id: ObjectId("52cdef7c4bab8bd675297d99"),
  acquisition: { price_currency_code: 'EUR' } }
{ _id: ObjectId("52cdef7c4bab8bd675297d9a"),
  acquisition: { price_currency_code: 'EUR' } }
{ _id: ObjectId("52cdef7c4bab8bd675297da1"),
  acquisition: { price_currency_code: 'EUR' } }
{ _id: ObjectId("52cdef7c4bab8bd675297da4"),
  acquisition: { price_currency_code: 'EUR' } }
{ _id: ObjectId("52cdef7c4bab8bd675297da6"),
  acquisition: { price_currency_code: 'EUR' } }
{ _id: ObjectId("52cdef7c4bab8bd675297daf"),
  acquisition: { price_currency_code: 'EUR' } }
{ _id: ObjectId("52cdef7c4bab8bd675297db4"),
  acquisition: { price_currency_code: 'EUR' } }
{ _id: ObjectId("52cdef7c4bab8bd675297dbb"),
  acquisition: { price_currency_code: 'EUR' } }
{ _id: ObjectId("52cdef7c4bab8bd675297dbc"),
  acquisition: { price_currency_code: 'EUR' } }
{ _id: ObjectId("52cdef7c4bab8bd675297dbd"),
  acquisition: { price_currency_code: 'EUR' } }
{ _id: ObjectId("52cdef7c4bab8bd675297dc5"),
  acquisition: { price_currency_code: 'EUR' } }
{ _id: ObjectId("52cdef7c4bab8bd675297dcb"),
  acquisition: { price_currency_code: 'EUR' } }
{ _id: ObjectId("52cdef7c4bab8bd675297dda"),
  acquisition: { price_currency_code: 'EUR' } }
{ _id: ObjectId("52cdef7c4bab8bd675297de1"),
  acquisition: { price_currency_code: 'EUR' } }
{ _id: ObjectId("52cdef7c4bab8bd675297deb"),
  acquisition: { price_currency_code: 'EUR' } }
{ _id: ObjectId("52cdef7c4bab8bd675297ded"),
  acquisition: { price_currency_code: 'EUR' } }
```

18. All the companies that have been acquired in the first trimester of the year. Limit the search to 10 companies, and retrieve only their name and acquisition fields.

```
db.companies.find({"acquisition.acquired_month":{$lte:3}},{_id:0,name:1,acquisition:1}).limit(10)
```

Output:
```
{ name: 'Kyte',
  acquisition:
   { price_amount: null,
     price_currency_code: 'USD',
     term_code: null,
       source_url: 'http://techcrunch.com/2011/01/31/exclusive-kit-digital-acquires-kickapps-kewego-and-kyte-for-77-2-million/',
     source_description: 'KIT digital Acquires KickApps, Kewego AND Kyte For $77.2 Million',
```

        acquired_year: 2011,
        acquired_month: 1,
        acquired_day: 31,
        acquiring_company: { name: 'KIT digital', permalink: 'kit-digital' } } }
{ name: 'NetRatings',
  acquisition:
   { price_amount: 327000000,
     price_currency_code: 'USD',
     term_code: 'cash',
                                        source_url: 'http://login.vnuemedia.com/hr/login/login_subscribe.jsp?
id=0oqDem1gYIfIclz9i2%2Ffqj5NxCp2AC5DPbVnyT2da8GyV2mXjasabE128n69OrmcAh52%2FGE3pSG%2F
%0AEKRYD9vh9EhrJrxukmUzh532fSMTZXL42gwPB80UWVtF1NwJ5UZSM%2BCkLU1mpYBoHFgiH
%2Fi0f6Ax%0A9yMIVxt47t%2BHamhEQ0nkOEK24L',
     source_description: 'Nielsen buys rest of NetRatings',
     acquired_year: 2007,
     acquired_month: 2,
     acquired_day: null,
     acquiring_company: { name: 'Nielsen', permalink: 'nielsen' } } }
{ name: 'blogTV',
  acquisition:
   { price_amount: null,
     price_currency_code: 'USD',
     term_code: null,
     source_url: 'http://techcrunch.com/2013/03/13/younow-buys-blogtv/',
     source_description: 'Live Social Video Network YouNow Acquires Streaming Service BlogTV',
     acquired_year: 2013,
     acquired_month: 3,
     acquired_day: 13,
     acquiring_company: { name: 'YouNow', permalink: 'younow' } } }
{ name: 'Livestream',
  acquisition:
   { price_amount: null,
     price_currency_code: 'USD',
     term_code: 'cash_and_stock',
     source_url: '',
     source_description: 'company',
     acquired_year: 2008,
     acquired_month: 1,
     acquired_day: 1,
     acquiring_company: { name: 'Adviqo', permalink: 'adviqo' } } }
{ name: 'iContact',
  acquisition:
   { price_amount: 169000000,
     price_currency_code: 'USD',
     term_code: 'cash_and_stock',
     source_url: 'http://techcrunch.com/2012/02/28/vocus-buys-email-marketing-company-icontact-for-169-million/',
     source_description: 'Vocus Buys Email Marketing Company iContact For $169 Million',
     acquired_year: 2012,
     acquired_month: 2,
     acquired_day: 28,

      acquiring_company: { name: 'Vocus', permalink: 'vocus' } } }
{ name: 'Coghead',
  acquisition:
   { price_amount: null,
     price_currency_code: 'USD',
     term_code: null,
         source_url: 'http://www.techcrunch.com/2009/02/19/sap-acquires-cogheads-technology-as-it-looks-towards-the-cloud/',
     source_description: 'SAP Acquires Cogheadâ€™s Technology As It Looks Towards The Cloud',
     acquired_year: 2009,
     acquired_month: 2,
     acquired_day: 19,
     acquiring_company: { name: 'SAP', permalink: 'sap' } } }
{ name: 'Dailymotion',
  acquisition:
   { price_amount: 168000000,
     price_currency_code: 'USD',
     term_code: null,
         source_url: 'http://techcrunch.com/2013/02/22/orange-acquired-dailymotion-for-168-million-by-buying-out-the-remaining-51-stake/',
     source_description: 'Orange Acquired Dailymotion For $168 Million By Buying Out Remaining 51% Stake [Update: Orange Confirms]',
     acquired_year: 2013,
     acquired_month: 2,
     acquired_day: 22,
     acquiring_company: { name: 'Orange', permalink: 'orange' } } }
{ name: 'Netvibes',
  acquisition:
   { price_amount: null,
     price_currency_code: 'USD',
     term_code: null,
     source_url: 'http://www.marketwatch.com/story/dassault-systemes-acquires-netvibes-2012-02-09',
     source_description: 'Dassault Systemes Acquires Netvibes',
     acquired_year: 2012,
     acquired_month: 2,
     acquired_day: 9,
     acquiring_company: { name: 'Dassault Systemes', permalink: 'dassault' } } }
{ name: 'Flickr',
  acquisition:
   { price_amount: null,
     price_currency_code: 'USD',
     term_code: 'cash_and_stock',
     source_url: 'http://news.cnet.com/Yahoo-buys-photo-sharing-site-Flickr/2100-1038_3-5627640.html?tag=mncol;txt',
     source_description: 'CNET',
     acquired_year: 2005,
     acquired_month: 3,
     acquired_day: null,
     acquiring_company: { name: 'Yahoo!', permalink: 'yahoo' } } }
{ name: 'BabyCenter',
  acquisition:

```
  { price_amount: null,
    price_currency_code: 'USD',
    term_code: null,
    source_url: 'http://www.investor.jnj.com/releasedetail.cfm?releaseid=63836',
      source_description: 'Johnson & Johnson Acquires BabyCenter From eToys, Inc. Leading Online Destination for
Parents Plans for Continued Expansion of Operations',
    acquired_year: 2001,
    acquired_month: 3,
    acquired_day: 2,
    acquiring_company: { name: 'Johnson & Johnson', permalink: 'johnson-johnson' } } }
```

19. All the companies that have been founded between 2000 and 2010, but have not been acquired before 2011.

db.companies.find({"founded_year":{$in:[2000,2010]},"acquisition.acquired_year":{$gt:2011}},
{_id:0,name:1,founded_year:1,"acquisition.acquired_year":1})

Output:

```
{ name: 'SelectMinds',
  founded_year: 2000,
  acquisition: { acquired_year: 2012 } }
{ name: 'SnapNames',
  founded_year: 2000,
  acquisition: { acquired_year: 2012 } }
{ name: 'Handmark',
  founded_year: 2000,
  acquisition: { acquired_year: 2013 } }
{ name: 'Bestofmedia Group',
  founded_year: 2000,
  acquisition: { acquired_year: 2013 } }
{ name: 'Axis',
  founded_year: 2000,
  acquisition: { acquired_year: 2013 } }
{ name: 'Axis',
  founded_year: 2000,
  acquisition: { acquired_year: 2013 } }
{ name: 'ExactTarget',
  founded_year: 2000,
  acquisition: { acquired_year: 2013 } }
{ name: 'Rainbow Partners',
  founded_year: 2000,
  acquisition: { acquired_year: 2012 } }
{ name: 'Crossbeam Systems',
  founded_year: 2000,
  acquisition: { acquired_year: 2012 } }
{ name: 'BroadLight',
  founded_year: 2000,
  acquisition: { acquired_year: 2012 } }
{ name: 'Nexsan',
```

```
    founded_year: 2000,
    acquisition: { acquired_year: 2013 } }
{ name: 'Echopass Corporation',
    founded_year: 2000,
    acquisition: { acquired_year: 2013 } }
{ name: 'Xelerated',
    founded_year: 2000,
    acquisition: { acquired_year: 2012 } }
{ name: 'Kiala',
    founded_year: 2000,
    acquisition: { acquired_year: 2012 } }
{ name: 'picoChip',
    founded_year: 2000,
    acquisition: { acquired_year: 2012 } }
{ name: 'Tamarac',
    founded_year: 2000,
    acquisition: { acquired_year: 2012 } }
{ name: 'N-able Technologies',
    founded_year: 2000,
    acquisition: { acquired_year: 2013 } }
{ name: 'Zipcar',
    founded_year: 2000,
    acquisition: { acquired_year: 2013 } }
{ name: 'Moonfruit',
    founded_year: 2000,
    acquisition: { acquired_year: 2012 } }
{ name: 'Everyday Solutions',
    founded_year: 2000,
    acquisition: { acquired_year: 2012 } }
Type "it" for more
```