
use adtech
switched to db adtech

```
db.itemdata.find( {} )
{
  _id: ObjectId('66d52ca382ad8ebe4e36bfc0'),
  item_id: 26880,
  item_price: 4602,
  category_1: 11,
  category_2: 35,
  category_3: 20,
  product_type: 3040
}
{
  _id: ObjectId('66d52ca382ad8ebe4e36bfc1'),
  item_id: 54939,
  item_price: 3513,
  category_1: 12,
  category_2: 57,
  category_3: 85,
  product_type: 6822
}
{
  _id: ObjectId('66d52ca382ad8ebe4e36bfc2'),
  item_id: 40383,
  item_price: 825,
  category_1: 17,
  category_2: 8,
  category_3: 279,
  product_type: 1619
}
{
  _id: ObjectId('66d52ca382ad8ebe4e36bfc3'),
  item_id: 8777,
  item_price: 2355,
  category_1: 13,
  category_2: 58,
  category_3: 189,
```

```
product_type: 5264
}
{
  _id: ObjectId('66d52ca382ad8ebe4e36bfc4'),
  item_id: 113705,
  item_price: 1267,
  category_1: 17,
  category_2: 39,
  category_3: 151,
  product_type: 10239
}
{
  _id: ObjectId('66d52ca382ad8ebe4e36bfc5'),
  item_id: 108843,
  item_price: 953,
  category_1: 9,
  category_2: 9,
  category_3: 90,
  product_type: 703
}
{
  _id: ObjectId('66d52ca382ad8ebe4e36bfc6'),
  item_id: 129807,
  item_price: 18118,
  category_1: 16,
  category_2: 56,
  category_3: 188,
  product_type: 2537
}
{
  _id: ObjectId('66d52ca382ad8ebe4e36bfc7'),
  item_id: 44250,
  item_price: 17856,
  category_1: 16,
  category_2: 56,
  category_3: 42,
  product_type: 9641
}
{
  _id: ObjectId('66d52ca382ad8ebe4e36bfc8'),
  item_id: 49862,
  item_price: 2868,
  category_1: 7,
  category_2: 23,
```

```
category_3: 219,  
product_type: 842  
}  
{  
  _id: ObjectId('66d52ca382ad8ebe4e36bfc9'),  
  item_id: 77042,  
  item_price: 4032,  
  category_1: 17,  
  category_2: 55,  
  category_3: 58,  
  product_type: 623  
}  
{  
  _id: ObjectId('66d52ca382ad8ebe4e36bfca'),  
  item_id: 229,  
  item_price: 2183,  
  category_1: 13,  
  category_2: 58,  
  category_3: 265,  
  product_type: 3248  
}  
{  
  _id: ObjectId('66d52ca382ad8ebe4e36bfcb'),  
  item_id: 77286,  
  item_price: 8552,  
  category_1: 7,  
  category_2: 31,  
  category_3: 271,  
  product_type: 6864  
}  
{  
  _id: ObjectId('66d52ca382ad8ebe4e36bfcc'),  
  item_id: 31157,  
  item_price: 1952,  
  category_1: 10,  
  category_2: 43,  
  category_3: 223,  
  product_type: 3328  
}  
{  
  _id: ObjectId('66d52ca382ad8ebe4e36bfcd'),  
  item_id: 107227,  
  item_price: 4135,  
  category_1: 16,
```

```
category_2: 68,  
category_3: 40,  
product_type: 4181  
}  
{  
  _id: ObjectId('66d52ca382ad8ebe4e36bfce'),  
  item_id: 47099,  
  item_price: 4467,  
  category_1: 9,  
  category_2: 9,  
  category_3: 90,  
  product_type: 7151  
}  
{  
  _id: ObjectId('66d52ca382ad8ebe4e36bfcf'),  
  item_id: 95657,  
  item_price: 377,  
  category_1: 7,  
  category_2: 23,  
  category_3: 137,  
  product_type: 7233  
}  
{  
  _id: ObjectId('66d52ca382ad8ebe4e36bfd0'),  
  item_id: 127016,  
  item_price: 6854,  
  category_1: 12,  
  category_2: 57,  
  category_3: 171,  
  product_type: 4036  
}  
{  
  _id: ObjectId('66d52ca382ad8ebe4e36bfd1'),  
  item_id: 95953,  
  item_price: 2067,  
  category_1: 7,  
  category_2: 23,  
  category_3: 149,  
  product_type: 7203  
}  
{  
  _id: ObjectId('66d52ca382ad8ebe4e36bfd2'),  
  item_id: 131809,  
  item_price: 1267,
```

```
category_1: 17,  
category_2: 8,  
category_3: 113,  
product_type: 6936  
}  
{  
  _id: ObjectId('66d52ca382ad8ebe4e36bfd3'),  
  item_id: 31202,  
  item_price: 3552,  
  category_1: 13,  
  category_2: 58,  
  category_3: 47,  
  product_type: 7387  
}  
Type "it" for more
```

```
db.impressions.countDocuments({is_click: 1})  
10862
```

```
db.impressions.distinct("os_version")  
[ 'intermediate', 'latest', 'old' ]
```

```
db.impressions.aggregate(  
  [  
    {$match: {} },  
    {$group: { _id: "$os_version", countClick: { $sum: "$is_click" } } }  
  ]  
)  
{  
  _id: 'latest',  
  countClick: 5382  
}  
{  
  _id: 'old',  
  countClick: 2605  
}  
{  
  _id: 'intermediate',  
  countClick: 2875  
}
```

```
db.impressions.aggregate(  
  [  
    {$match: {} },  
    {$group: { _id: "$app_code", countClick: { $sum: "$is_click" } } },  
    {$sort: {total: -1}}  
  ]  
)  
{  
  _id: 315,  
  countClick: 1  
}  
{  
  _id: 361,  
  countClick: 0  
}  
{  
  _id: 222,  
  countClick: 0  
}  
{  
  _id: 336,  
  countClick: 5  
}  
{  
  _id: 338,  
  countClick: 1  
}  
{  
  _id: 398,  
  countClick: 1  
}  
{  
  _id: 240,  
  countClick: 13  
}  
{  
  _id: 151,  
  countClick: 116  
}  
{  
  _id: 135,
```

```
countClick: 4
}
{
  _id: 152,
  countClick: 0
}
{
  _id: 234,
  countClick: 0
}
{
  _id: 256,
  countClick: 26
}
{
  _id: 248,
  countClick: 0
}
{
  _id: 44,
  countClick: 27
}
{
  _id: 68,
  countClick: 9
}
{
  _id: 346,
  countClick: 1
}
{
  _id: 6,
  countClick: 0
}
{
  _id: 306,
  countClick: 0
}
{
  _id: 360,
  countClick: 0
}
{
  _id: 26,
```

```
countClick: 0
}
```

Type "it" for more