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$project: {

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reviews: 1,

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},

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$unwind: "$reviews",

},

{

$project: {

sentiment: {

$switch: {

branches: [

{

case: {

$regexMatch: {

input: {

$concat: [

"$reviews.text",

" ",

"$reviews.title",

],

},

regex:

"(excellent|awesome|fantastic|amazing|outstanding|superb|terrific|pleasing|positive|perfect|great|wonderful|impressive|superior|exceptional|satisfying|delightful|splendid|stellar|commendable|first-rate|pleasurable|exquisite|admirable|noteworthy|brilliant|charming|enjoyable|marvelous|positive|pleasant|immaculate|gratifying|uplifting|heartwarming|affirmative|captivating|favorable|constructive|exuberant|good service|excellent service|attentive service|friendly staff|helpful staff|courteous staff|prompt service|efficient service|professional service|polite staff|fast service|positive experience|positive stay|positive impression|positive feedback|positive vibes|excellent room|awesome amenities|fantastic service|amazing location|outstanding staff|superb facilities|terrific experience|pleasing ambiance|positive atmosphere|perfect stay|great hospitality|wonderful view|impressive decor|superior cleanliness|exceptional quality|satisfying comfort|delightful surroundings|splendid decor|stellar service|commendable staff|first-rate amenities|pleasurable stay|exquisite design|admirable features|noteworthy comfort|brilliant arrangement|charming atmosphere|enjoyable environment|marvelous setting)",

options: "i",

},

},

then: "positive",

},

{

case: {

$regexMatch: {

input: {

$concat: [

"$reviews.text",

" ",

"$reviews.title",

],

},

regex:

"(poor|terrible|awful|horrible|disappointing|unpleasant|dreadful|inferior|negative|displeasing|unsatisfactory|disastrous|atrocious|appalling|lousy|mediocre|subpar|pitiful|regrettable|unfavorable|unpleasant|dismal|dreadful|discouraging|lamentable|gloomy|unfortunate|repugnant|offensive|disgusting|vile|abysmal|dreary|deplorable|disheartening|oppressive|woeful|unpleasant|objectionable|inferior|repulsive|poor service|bad service|inattentive service|unfriendly staff|unhelpful staff|rude staff|slow service|inefficient service|unprofessional service|discourteous staff|negative experience|negative stay|negative impression|negative feedback|negative vibes|poor room|terrible amenities|awful service|horrible location|disappointing staff|unpleasant facilities|dreadful experience|inferior ambiance|negative atmosphere|displeasing stay|unsatisfactory decor|disastrous cleanliness|atrocious surroundings|appalling decor|lousy service|mediocre amenities|subpar view|pitiful hospitality|regrettable features|unfavorable comfort|unpleasant surroundings|dismal arrangement|dreadful environment|discouraging setting|lamentable design|gloomy atmosphere|unfortunate features|repugnant hospitality|offensive staff|disgusting service|vile ambiance|abysmal environment|dreary setting|deplorable cleanliness|disheartening decor|oppressive surroundings|woeful facilities|unpleasant room|objectionable amenities|inferior features|repulsive comfort|poor service|bad service|inattentive service|unfriendly staff|unhelpful staff|rude staff|slow service|inefficient service|unprofessional service|discourteous staff|negative experience|negative stay|negative impression|negative feedback|negative vibes|poor room|terrible amenities|awful service|horrible location|disappointing staff|unpleasant facilities|dreadful experience|inferior ambiance|negative atmosphere|displeasing stay|unsatisfactory decor|disastrous cleanliness|atrocious surroundings|appalling decor|lousy service|mediocre amenities|subpar view|pitiful hospitality|regrettable features|unfavorable comfort|unpleasant surroundings|dismal arrangement|dreadful environment|discouraging setting|lamentable design|gloomy atmosphere|unfortunate features|repugnant hospitality|offensive staff|disgusting service|vile ambiance|abysmal environment|dreary setting|deplorable cleanliness|disheartening decor|oppressive surroundings|woeful facilities|unpleasant room|objectionable amenities|inferior features|repulsive comfort)",

options: "i",

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then: "negative",

},

{

case: {

$regexMatch: {

input: {

$concat: [

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" ",

"$reviews.title",

],

},

regex:

"(average|mediocre|ordinary|standard|typical|neutral|middling|so-so|common|routine|regular|adequate|fair|tolerable|passable|acceptable|moderate)",

options: "i",

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then: "average",

},

],

default: "unknown",

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" ",

"$reviews.title",

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rating: "$reviews.rating",

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},

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sentiment: {

$ne: "unknown",

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rating: {

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},

{

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count: {

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},

},

},

]

2nd query

[

{

$unwind: "$reviews",

},

{

$project: {

province: 1,

sentiment: {

$switch: {

branches: [

{

case: {

$regexMatch: {

input: {

$concat: [

"$reviews.text",

" ",

"$reviews.title",

],

},

regex:

"(excellent|awesome|fantastic|amazing|outstanding|superb|terrific|pleasing|positive|perfect|great|wonderful|impressive|superior|exceptional|satisfying|delightful|splendid|stellar|commendable|first-rate|pleasurable|exquisite|admirable|noteworthy|brilliant|charming|enjoyable|marvelous|positive|pleasant|immaculate|gratifying|uplifting|heartwarming|affirmative|captivating|favorable|constructive|exuberant|good service|excellent service|attentive service|friendly staff|helpful staff|courteous staff|prompt service|efficient service|professional service|polite staff|fast service|positive experience|positive stay|positive impression|positive feedback|positive vibes|excellent room|awesome amenities|fantastic service|amazing location|outstanding staff|superb facilities|terrific experience|pleasing ambiance|positive atmosphere|perfect stay|great hospitality|wonderful view|impressive decor|superior cleanliness|exceptional quality|satisfying comfort|delightful surroundings|splendid decor|stellar service|commendable staff|first-rate amenities|pleasurable stay|exquisite design|admirable features|noteworthy comfort|brilliant arrangement|charming atmosphere|enjoyable environment|marvelous setting)",

options: "i",

},

},

then: "positive",

},

{

case: {

$regexMatch: {

input: {

$concat: [

"$reviews.text",

" ",

"$reviews.title",

],

},

regex:

"(poor|terrible|awful|horrible|disappointing|unpleasant|dreadful|inferior|negative|displeasing|unsatisfactory|disastrous|atrocious|appalling|lousy|mediocre|subpar|pitiful|regrettable|unfavorable|unpleasant|dismal|dreadful|discouraging|lamentable|gloomy|unfortunate|repugnant|offensive|disgusting|vile|abysmal|dreary|deplorable|disheartening|oppressive|woeful|unpleasant|objectionable|inferior|repulsive|poor service|bad service|inattentive service|unfriendly staff|unhelpful staff|rude staff|slow service|inefficient service|unprofessional service|discourteous staff|negative experience|negative stay|negative impression|negative feedback|negative vibes|poor room|terrible amenities|awful service|horrible location|disappointing staff|unpleasant facilities|dreadful experience|inferior ambiance|negative atmosphere|displeasing stay|unsatisfactory decor|disastrous cleanliness|atrocious surroundings|appalling decor|lousy service|mediocre amenities|subpar view|pitiful hospitality|regrettable features|unfavorable comfort|unpleasant surroundings|dismal arrangement|dreadful environment|discouraging setting|lamentable design|gloomy atmosphere|unfortunate features|repugnant hospitality|offensive staff|disgusting service|vile ambiance|abysmal environment|dreary setting|deplorable cleanliness|disheartening decor|oppressive surroundings|woeful facilities|unpleasant room|objectionable amenities|inferior features|repulsive comfort|poor service|bad service|inattentive service|unfriendly staff|unhelpful staff|rude staff|slow service|inefficient service|unprofessional service|discourteous staff|negative experience|negative stay|negative impression|negative feedback|negative vibes|poor room|terrible amenities|awful service|horrible location|disappointing staff|unpleasant facilities|dreadful experience|inferior ambiance|negative atmosphere|displeasing stay|unsatisfactory decor|disastrous cleanliness|atrocious surroundings|appalling decor|lousy service|mediocre amenities|subpar view|pitiful hospitality|regrettable features|unfavorable comfort|unpleasant surroundings|dismal arrangement|dreadful environment|discouraging setting|lamentable design|gloomy atmosphere|unfortunate features|repugnant hospitality|offensive staff|disgusting service|vile ambiance|abysmal environment|dreary setting|deplorable cleanliness|disheartening decor|oppressive surroundings|woeful facilities|unpleasant room|objectionable amenities|inferior features|repulsive comfort)",

options: "i",

},

},

then: "negative",

},

{

case: {

$regexMatch: {

input: {

$concat: [

"$reviews.text",

" ",

"$reviews.title",

],

},

regex:

"(average|mediocre|ordinary|standard|typical|neutral|middling|so-so|common|routine|regular|adequate|fair|tolerable|passable|acceptable|moderate)",

options: "i",

},

},

then: "average",

},

],

default: "unknown",

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content: {

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"$reviews.text",

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"$reviews.title",

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rating: "$reviews.rating",

},

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sentiment: {

$ne: "unknown",

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province: "$province",

sentiment: "$sentiment",

},

count: {

$sum: 1,

},

},

},

{

$group: {

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sentiments: {

$push: {

sentiment: "$\_id.sentiment",

count: "$count",

},

},

},

},

]

Query 3: ompare every months so manximum reviews tell you which month was busiest and will let you know when it is at high price