

# Airline Review Queries

These are example N1QL queries that may can performed to retrieve airline review related data.

## Airline Reviews By Airline ID

The following queries will return review related information for a given `airline_id`

### Index

[idxairlinesreviewsairlinecode.n1ql](#)

```
1 CREATE INDEX idx_airlines_reviews_airline_code ON `flight-data` ( airline_code, rating, d
2 WHERE doc_type = 'airline-review'
3 USING GSI
```

### Query

Get all of the reviews for an airline and sort by most recent

[airlinereviewsrecent.n1ql](#)

```
1 SELECT reviews.review_id, reviews.review_title, reviews.rating,
2     MILLIS_TO_STR( reviews.review_date, 'yyyy-mm-dd' ) AS review_date,
3     users.user_id,
4     users.details.first_name || IFNULL( ' ' || SUBSTR( users.details.last_name, 0, 1 ) |
5 FROM `flight-data` AS reviews
6 INNER JOIN `flight-data` AS users
7     ON KEYS 'user_' || TOSTRING( reviews.user_id )
8 WHERE reviews.airline_code = 'AA'
9     AND reviews.rating IS NOT NULL
10    AND reviews.doc_type = 'airline-review'
11 ORDER BY reviews.review_date DESC
```

### Result

```

1  [
2    {
3      "rating": 5,
4      "review_date": "2016-05-21T10:30:22.42Z",
5      "review_id": "aa4763eb-402f-4be8-a46d-da8f0a639f37",
6      "review_title": "Sunt eius sint.",
7      "reviewer_name": "Abigale L.",
8      "user_id": 3163
9    },
10   {
11     "rating": 1,
12     "review_date": "2016-05-21T01:12:22.982Z",
13     "review_id": "85394e70-2be6-4e6e-bdcd-096965b622d7",
14     "review_title": "Nemo vitae quia et atque incidunt velit maiores expedita.",
15     "reviewer_name": "Benjamin",
16     "user_id": 2908
17   },
18   {
19     "rating": 2,
20     "review_date": "2016-05-20T21:32:09.35Z",
21     "review_id": "e6d5d619-3b68-43bc-9a82-cf3cd511c51f",
22     "review_title": "Architecto iste et.",
23     "reviewer_name": "Percy",
24     "user_id": 8148
25   },
26   {
27     "rating": 4,
28     "review_date": "2016-05-11T21:45:09.887Z",
29     "review_id": "f0daff0a-952e-4aa1-896d-f7264bafdd89",
30     "review_title": "Aliquam omnis dolorem deserunt aut velit impedit consequuntur dolor",
31     "reviewer_name": "Cecile T.",
32     "user_id": 1023
33   }
34 ]

```

## Query

This query will return the total # of reviews, the average review rating and the best and worst rating.

[airlinereviewsaggregates.n1ql](#)

```

1 SELECT COUNT( 1 ) AS total_reviews,
2     ROUND( AVG( reviews.rating ), 2 ) AS avg_rating,
3     MIN( reviews.rating ) AS worst_rating,
4     MAX( reviews.rating ) AS best_rating
5 FROM `flight-data` AS reviews
6 WHERE reviews.airline_code = 'AE'
7     AND reviews.rating IS NOT NULL
8     AND reviews.doc_type = 'airline-review'
9 GROUP BY reviews.airline_id

```

## Result

```

1 [
2   {
3     "avg_rating": 3.2,
4     "best_rating": 5,
5     "total_reviews": 10,
6     "worst_rating": 1
7   }
8 ]

```

## User Airline Reviews

The following indexes and queries show to retrieve which reviews for an airline a user has submitted.

### Index

[idxairlinesreviewsuserid.n1ql](#)

```

1 CREATE INDEX idx_airlines_reviews_user_id ON `flight-data`( user_id, airline_code, doc_t
2 WHERE doc_type = 'airline-review'
3 USING GSI

```

### Query

[airlinereviewsbyuserid.n1ql](#)

```

1 SELECT reviews.review_id, reviews.review_title, reviews.rating,
2     MILLIS_TO_STR( reviews.review_date ) AS review_date,
3     IFNULL( airlines.airline_iata, airlines.airline_icao ) AS airline_code,
4     airlines.airline_name
5 FROM `flight-data` AS reviews
6 INNER JOIN `flight-data` AS airlines
7     ON KEYS 'airline_' || TOSTRING( reviews.airline_id )
8 WHERE reviews.user_id = 2090
9     AND reviews.doc_type = 'airline-review'
10 ORDER BY reviews.review_date DESC

```

## Results

```

1 [
2   {
3     "airline_code": "TMS",
4     "airline_name": "Temsco Helicopters",
5     "rating": 3,
6     "review_date": "2016-05-21T17:39:41.692Z",
7     "review_id": "ef52b510-a03a-4564-90a9-00709d3f4784",
8     "review_title": "Eveniet ratione autem voluptas mollitia dolore."
9   },
10  {
11    "airline_code": "RDE",
12    "airline_name": "II Lione Alato Arl",
13    "rating": 4,
14    "review_date": "2016-05-21T12:37:34.683Z",
15    "review_id": "a11b5803-d598-4234-b02a-25f8bd61d37b",
16    "review_title": "Consequatur esse alias et est impedit aperiam ipsum illo delectus."
17  },
18  {
19    "airline_code": "LTS",
20    "airline_name": "Flight Inspections and Systems",
21    "rating": 5,
22    "review_date": "2016-05-21T10:05:52.907Z",
23    "review_id": "99b749a2-7ceb-4d49-8353-181582307690",
24    "review_title": "Dolorem quis quod."
25  },
26  {
27    "airline_code": "KDA",
28    "airline_name": "Kendell Airlines",
29    "rating": 1,
30    "review_date": "2016-05-21T04:09:36.975Z",
31    "review_id": "bc3b2c37-d8c4-4385-b93e-d1342d1a7cb3",
32    "review_title": "Et nulla nisi nam voluptatibus nam."
33  }

```

```
34 {
35   "airline_code": "SMH",
36   "airline_name": "Smithair",
37   "rating": 3,
38   "review_date": "2016-05-20T19:53:22.862Z",
39   "review_id": "177fb266-cd76-469d-a887-efc883a247b8",
40   "review_title": "Enim autem dolore alias."
41 },
42 {
43   "airline_code": "KOK",
44   "airline_name": "Horizon Air Service",
45   "rating": 5,
46   "review_date": "2015-10-14T07:28:25.336Z",
47   "review_id": "dff9774e-9488-4066-9156-143fffc02515",
48   "review_title": "Delectus odio est itaque consequatur dolores deleniti non."
49 },
50 {
51   "airline_code": "AIV",
52   "airline_name": "Airvias S/A Linhas Aereas",
53   "rating": 2,
54   "review_date": "2015-08-20T07:04:05.259Z",
55   "review_id": "5b58e48d-ff79-4f05-ad70-023a79aa46fc",
56   "review_title": "Iure delectus est quidem harum in sit nemo."
57 }
58 ]
```