

Cassandra Retrieving Sorting

Creating Keyspace

```

Cassandra CQL Shell
cqlsh> CREATE KEYSPACE cycling
... WITH replication = {'class':'SimpleStrategy', 'replication_factor' : 3};
cqlsh>
cqlsh> create table cycling.rank_by_year_and_name(
... race_year int,
... race_name text,
... cyclist_name text,
... rank int,
... PRIMARY KEY ((race_year, race_name), rank));
cqlsh>
cqlsh> insert into cycling.rank_by_year_and_name (race_year, race_name, cyclist_name, rank) values (2015, 'Tour of Japan
- Stage 4 - Minami > Shinshu', 'Benjamin PRADES',1);
cqlsh>
cqlsh> insert into cycling.rank_by_year_and_name (race_year, race_name, cyclist_name, rank) values (2015, 'Tour of Japan
- Stage 4 - Minami > Shinshu', 'Adam PHELAN',2);
cqlsh>
cqlsh> insert into cycling.rank_by_year_and_name (race_year, race_name, cyclist_name, rank) values (2015, 'Tour of Japan
- Stage 4 - Minami > Shinshu', 'Thomas LEBAS',3);
cqlsh> insert into cycling.rank_by_year_and_name (race_year, race_name, cyclist_name, rank) values (2015, 'Giro d'Itali
a - Stage 11 - Forli > Imola', 'Ilnur ZAKARIN',1);
cqlsh>
cqlsh>
cqlsh> insert into cycling.rank_by_year_and_name (race_year, race_name, cyclist_name, rank) values (2015, 'Giro d'Itali
a - Stage 11 - Forli > Imola', 'Carlos BETANCUE',2);
cqlsh> insert into cycling.rank_by_year_and_name (race_year, race_name, cyclist_name, rank) values (2014, '4th Tour of B
eijing', 'Phillipe GILBERT',1);
cqlsh>
cqlsh>
cqlsh> insert into cycling.rank_by_year_and_name (race_year, race_name, cyclist_name, rank) values (2014, '4th Tour of B
eijing', 'Daniel MARTIN',2);
cqlsh>
cqlsh> insert into cycling.rank_by_year_and_name (race_year, race_name, cyclist_name, rank) values (2014, '4th Tour of B
eijing', 'Johan Esteban CHAVES',3);
cqlsh>

```

Displaying Table

```

cqlsh>
cqlsh> select * from cycling.rank_by_year_and_name;

  race_year | race_name                                     | rank | cyclist_name
-----+-----+-----+-----
    2014   | 4th Tour of Beijing                           |    1 | Phillipe GILBERT
    2014   | 4th Tour of Beijing                           |    2 | Daniel MARTIN
    2014   | 4th Tour of Beijing                           |    3 | Johan Esteban CHAVES
    2015   | Giro d'Italia - Stage 11 - Forli > Imola      |    1 | Ilnur ZAKARIN
    2015   | Giro d'Italia - Stage 11 - Forli > Imola      |    2 | Carlos BETANCUE
    2015   | Tour of Japan - Stage 4 - Minami > Shinshu    |    1 | Benjamin PRADES
    2015   | Tour of Japan - Stage 4 - Minami > Shinshu    |    2 | Adam PHELAN
    2015   | Tour of Japan - Stage 4 - Minami > Shinshu    |    3 | Thomas LEBAS

(8 rows)
cqlsh>

```

Querying

```
cqlsh>
cqlsh> select * from cycling.rank_by_year_and_name LIMIT 3;
```

race_year	race_name	rank	cyclist_name
2014	4th Tour of Beijing	1	Phillipe GILBERT
2014	4th Tour of Beijing	2	Daniel MARTIN
2014	4th Tour of Beijing	3	Johan Esteban CHAVES

```
(3 rows)
cqlsh>
cqlsh>
cqlsh> SELECT race_year, race_name as race_info from cycling.rank_by_year_and_name;
```

race_year	race_info
2014	4th Tour of Beijing
2014	4th Tour of Beijing
2014	4th Tour of Beijing
2015	Giro d'Italia - Stage 11 - Forli > Imola
2015	Giro d'Italia - Stage 11 - Forli > Imola
2015	Tour of Japan - Stage 4 - Minami > Shinshu
2015	Tour of Japan - Stage 4 - Minami > Shinshu
2015	Tour of Japan - Stage 4 - Minami > Shinshu

```
(8 rows)
cqlsh>
```

CODES

```
CREATE KEYSPACE cycling
```

```
WITH replication = {'class':'SimpleStrategy', 'replication_factor' : 3};
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```
create table cycling.rank_by_year_and_name(
```

```
race_year int,
```

```
race_name text,
```

```
cyclist_name text,
```

```
rank int,
```

```
PRIMARY KEY ((race_year, race_name), rank));
```

```
insert into cycling.rank_by_year_and_name (race_year, race_name, cyclist_name, rank) values (2015, 'Tour of Japan - Stage 4 - Minami > Shinshu', 'Adam PHELAN',2);
```

```
insert into cycling.rank_by_year_and_name (race_year, race_name, cyclist_name, rank) values (2015, 'Tour of Japan - Stage 4 - Minami > Shinshu', 'Thomas LEBAS',3);
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insert into cycling.rank_by_year_and_name (race_year, race_name, cyclist_name, rank) values (2015, 'Giro d'Italia - Stage 11 - Forli > Imola', 'Ilnur ZAKARIN',1);
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insert into cycling.rank_by_year_and_name (race_year, race_name, cyclist_name, rank) values (2015, 'Giro d'Italia - Stage 11 - Forli > Imola', 'Carlos BETANCUE',2);
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insert into cycling.rank_by_year_and_name (race_year, race_name, cyclist_name, rank) values (2014, '4th Tour of Beijing', 'Phillipe GILBERT',1);
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insert into cycling.rank_by_year_and_name (race_year, race_name, cyclist_name, rank) values (2014, '4th Tour of Beijing', 'Johan Esteban CHAVES',3);
```

```
select * from cycling.rank_by_year_and_name;
```

```
select * from cycling.rank_by_year_and_name LIMIT 3;
```

```
SELECT race_year, race_name as race_info from cycling.rank_by_year_and_name;
```