PRACTICAL-04

Aggregation USING Mangodb

USING FIFA WORLDCUP DATASET

COMPARISON OPERTAORS

\$gt

Team won more than one match

```
use fifa
switched to db fifa
db.fifadata.find({ "wins": { "$gt": 1 } });
  _id: ObjectId('65f459dec401c242d6c12691'),
 key_id: 1,
  tournament_id: 'WC-1930',
  tournament_name: '1930 FIFA World Cup',
  stage_number: 1,
  stage_name: 'group stage',
  group_name: 'Group 1',
  position: 1,
  team_id: 'T-03',
  team_name: 'Argentina',
  team_code: 'ARG',
  played: 3,
 wins: 3,
  draws: 0,
  losses: 0,
  goals_for: 10,
```

\$It

Find the matches where goals conceded was lesss than 10

```
KASHINATH TAWTE
```

40778230023

```
db.fifadata.find({ "goals_against": { "$lt": 10 } });

{
        id: ObjectId('65f459dec401c242d6c12691'),
        key_id: 1,
        tournament_id: 'WC-1930',
        tournament_name: '1930 FIFA World Cup',
        stage_number: 1,
        stage_name: 'group stage',
        group_name: 'Group 1',
        position: 1,
        team_id: 'T-03',
        team_name: 'Argentina',
        team_code: 'ARG',
        played: 3,
        wins: 3,
        draws: 0,
        losses: 0,
        goals_for: 10,
        goals_against: 4,
        goal_difference: 6,
        points: 6,
        advanced: 1
}
```

In- Find Matches with team codes ESP or BRA

```
db.fifadata.find({ "team_code": { "$in": ["ESP", "BRA"] } });

{
    _id: ObjectId('65f459dec401c242d6c12696'),
    key_id: 6,
    tournament_id: 'WC-1930',
    tournament_name: '1930 FIFA World Cup',
    stage_number: 1,
    stage_name: 'group stage',
    group_name: 'Group 2',
    position: 2,
    team_id: 'T-09',
    team_name: 'Brazil',
    team_code: 'BRA',
    played: 2,
    wins: 1,
    draws: 0,
    losses: 1,
    goals_against: 2,
    goal_difference: 3,
    points: 2,
    advanced: 0
```

LOGICAL OPERATORS

AND ---find matches where number of goals scored is greater than 5 AND the number of goals conceded is less than 5.

```
db.fifadata.find({
  "$and": [
    { "goals_for": { "$gt": 5 } },
    { "goals_against": { "$lt": 5 } }
1);
  _id: ObjectId('65f459dec401c242d6c12691'),
  tournament_id: 'WC-1930',
  tournament_name: '1930 FIFA World Cup',
  stage_name: 'group stage',
  group_name: 'Group 1',
  team_name: 'Argentina',
  team_code: 'ARG',
  played: 3,
  wins: 3,
  draws: 0,
  losses: 0,
  goals_for: 10,
  goals_against: 4,
  goal_difference: 6,
  points: 6,
```

OR – Find the matches where either the number of wins is greater than 2 OR the number of draws is equal to 3.

```
KASHINATH TAWTE
```

40778230023

ELEMENT OPERATORS

Exist - Matches where Goal exist

Type-- documents where the field "position" has a numeric value.

```
KASHINATH TAWTE
```

40778230023

```
> db.fifadata.find({ "position": { "$type": "number" } });

< {
    _id: ObjectId('65f459dec401c242d6c12691'),
    key_id: 1,
    tournament_id: 'WC-1930',
    tournament_name: '1930 FIFA World Cup',
    stage_number: 1,
    stage_name: 'group stage',
    group_name: 'Group 1',
    position: 1,
    team_id: 'T-03',
    team_name: 'Argentina',
    team_code: 'ARG',
    played: 3,
    wins: 3,
    draws: 0,
    losses: 0,
    goals_for: 10,
    goals_against: 4,
    goal_difference: 6,
    points: 6,
    advanced: 1
}</pre>
```