ReDI School of Digital Integration

SQL Intro - Part 2 - Homework

We use tech to connect human potential and opportunity with dignity & humility

Question #1

Using ***tutorial.nominee_filmography***

Check the table, what it tells us?

1. Write a query that shows top 10 actress/actors that have the highest average rating.

```sql
-- Write a query that shows top 10 actress/actors that have the highest average rating
  SELECT
    name,
    AVG(rating) AS average_rating
  FROM tutorial.nominee_filmography
  GROUP BY name
  ORDER BY average_rating DESC
  LIMIT 10;
```

```sql
SELECT
  name,
  AVG(rating) AS average_rating
FROM tutorial.nominee_filmography
GROUP BY 1
ORDER BY 2 DESC
LIMIT 10;
```

	name	average_rating
1	Quvenzhan_ Wallis	7
2	Rinko Kikuchi	6.875
3	Daniel Day-Lewis	6.4762
4	Daniel Day Lewis	6.4762
5	Carey Mulligan	6.3333
6	Jaye Davidson	6.3333
7	Ida Kaminska	6.25
8	Kim Stanley	6.25
9	Jennifer Lawrence	6.1667
10	Albert Brooks	6.0976

1. Check the actors that average rating is between 6 and 6.5.

```sql
-- actors that average rating is between 6 and 6.5
 SELECT
    name,
    AVG(rating) AS average_rating
FROM tutorial.nominee_filmography
GROUP BY 1
HAVING AVG(rating) between 6 AND 6.5
ORDER BY 2 DESC;
```

	name	average_rating
1	Daniel Day-Lewis	6.4762
2	Daniel Day Lewis	6.4762
3	Jaye Davidson	6.3333
4	Carey Mulligan	6.3333
5	Ida Kaminska	6.25
6	Kim Stanley	6.25
7	Jennifer Lawrence	6.1667
8	Albert Brooks	6.0976
9	Montgomery Clift	6.0476
10	Michael V. Gazzo	6
11	Mary Badham	6
12	John Dall	6
13	Ken Watanabe	6

1. Chose a 3/4 of your favorite actors/actresses to check what is the MAX, MIN and AVR rating.

If you Favorite actor isnt in the list we suggest to go with: 'Jack Nicholson' , 'Meryl Streep' , Will Smith', 'Jennifer Lawrence'

```sql
SELECT
    name,
    AVG(rating) AS average_rating,
    MIN(rating) AS minimun_rating,
    MAX(rating) AS maximum_rating
FROM tutorial.nominee_filmography
WHERE name LIKE '%Smith%'
GROUP BY 1
ORDER BY 2 ASC;
```

```sql
SELECT
    name,
    AVG(rating) AS average_rating,
    MIN(rating) AS minimun_rating,
    MAX(rating) AS maximum_rating
FROM tutorial.nominee_filmography
WHERE name LIKE '%Jennifer%'
GROUP BY 1
ORDER BY 2 DESC;
```

```sql
SELECT
    name,
    AVG(rating) AS average_rating,
    MIN(rating) AS minimun_rating,
    MAX(rating) AS maximum_rating
FROM tutorial.nominee_filmography
WHERE name LIKE '%Jack Nicholson%'
GROUP BY 1
ORDER BY 2 ASC;
```

```sql
SELECT
    name,
    AVG(rating) AS average_rating,
    MIN(rating) AS minimun_rating,
    MAX(rating) AS maximum_rating
FROM tutorial.nominee_filmography
WHERE name LIKE '%Meryl Streep%'
GROUP BY 1
ORDER BY 2 ASC;
```

OR check all at once

```sql
-- rating of favorite actors/actresses
 SELECT
    name,
    AVG(rating) AS average_rating,
    MIN(rating) AS minimun_rating,
    MAX(rating) AS maximum_rating
FROM tutorial.nominee_filmography
WHERE name IN ('Meryl Streep', 'Jack Nicholson', 'Will Smith', 'Jennifer Lawrence')
GROUP BY 1
ORDER BY 2 DESC;
```

	name	average_rating	minimun_rating	maximum_rating
1	Jennifer Lawrence	6.1667	3	8
2	Meryl Streep	5.6522	2	9
3	Jack Nicholson	5.2048	1	9
4	Will Smith	4.4792	2	8

Question #2

Write a query that joins ***benn.college_football_players*** and ***benn.college_football_teams*** to then display player names, school names and conferences for schools in the "FBS (Division I-A Teams)" division.

```sql
SELECT
    football_players.player_name,
    football_players.school_name,
    football_teams.division,
    football_teams.conference
 FROM benn.college_football_players AS football_players
 FULL OUTER JOIN benn.college_football_teams AS football_teams
    ON football_players.school_name = football_teams.school_name
 WHERE football_teams.division = 'FBS (Division I-A Teams)'
 LIMIT 10;
```

	player_name	school_name	division	conference
1	Ralph Abernathy	Cincinnati	FBS (Division I-A Teams)	American Athletic
2	Mekale McKay	Cincinnati	FBS (Division I-A Teams)	American Athletic
3	Trenier Orr	Cincinnati	FBS (Division I-A Teams)	American Athletic
4	Bennie Coney	Cincinnati	FBS (Division I-A Teams)	American Athletic
5	Johnny Holton	Cincinnati	FBS (Division I-A Teams)	American Athletic
6	Howard Wilder	Cincinnati	FBS (Division I-A Teams)	American Athletic
7	Munchie Legaux	Cincinnati	FBS (Division I-A Teams)	American Athletic
8	Mark Barr	Cincinnati	FBS (Division I-A Teams)	American Athletic
9	Aaron Brown	Cincinnati	FBS (Division I-A Teams)	American Athletic
10	Anthony McClung	Cincinnati	FBS (Division I-A Teams)	American Athletic

```sql
SELECT
    football_players.player_name,
    football_players.school_name,
    football_teams.division,
    football_teams.conference
FROM benn.college_football_players AS football_players
INNER JOIN benn.college_football_teams AS football_teams
    ON football_players.school_name = football_teams.school_name
WHERE football_teams.division = 'FBS (Division I-A Teams)'
LIMIT 10;
```

	player_name	school_name	division	conference
1	Ralph Abernathy	Cincinnati	FBS (Division I-A Teams)	American Athletic
2	Mekale McKay	Cincinnati	FBS (Division I-A Teams)	American Athletic
3	Trenier Orr	Cincinnati	FBS (Division I-A Teams)	American Athletic
4	Bennie Coney	Cincinnati	FBS (Division I-A Teams)	American Athletic
5	Johnny Holton	Cincinnati	FBS (Division I-A Teams)	American Athletic

Question #3

Check the ***tutorial.dunder_mifflin_paper_sales*** table. Now that you know the GROUP BY clause, write a query for the performance numbers of all account managers.

Using a comment block argue a case on who's the best and who's the worst performing one based on attributes of your own choosing

(If you need some inspiration: https://www.youtube.com/watch?v=DVPEsKCL20Q)

```sql
-- best performing manager according to quantity sold and rating
  SELECT
    account_manager AS manager,
    SUM(quantity) AS quantity,
    AVG(rating) AS rating,
    COUNT(cancelled_at) AS cancelled,
    COUNT(review) AS customer_review
  FROM tutorial.dunder_mifflin_paper_sales
  GROUP BY account_manager
  ORDER BY quantity DESC;
/* Dwight Schrute is the best manager in terms of quantity sold (20,600)
but has the worst average rating from 143 customer reviews and the highest
number of cancelled orders. Creed Patton is the worst performing manager
with only 5,670 products sold. Although Creed Patton has a rating of 4.1,
Dwight has sold 3.6 times more product that Creed */
```

	manager	quantity	rating	cancelled	customer_review
1	Dwight Schrute	20600	2.6154	15	143
2	Angela Martin	8360	4	6	55
3	Ryan Howard	8330	3.92	5	50
4	Phyllis Vance	7730	4.1346	6	52
5	Meredith Palmer	7610	4.0392	9	51
6	Andy Bernard	7420	3.8333	4	48
7	Stanley Hudson	7100	4.0976	8	41
8	Kevin Malone	6740	4.1087	5	46
9	Oscar Martinez	6420	4.4	9	35
10	Pam Beesly	6190	3.9773	6	44
11	Michael Scott	6090	4.1	7	40
12	Erin Hannon	6020	3.975	4	40
13	Kelly Kapoor	5900	4.1389	5	36
14	Creed Patton	5670	4.0513	4	39