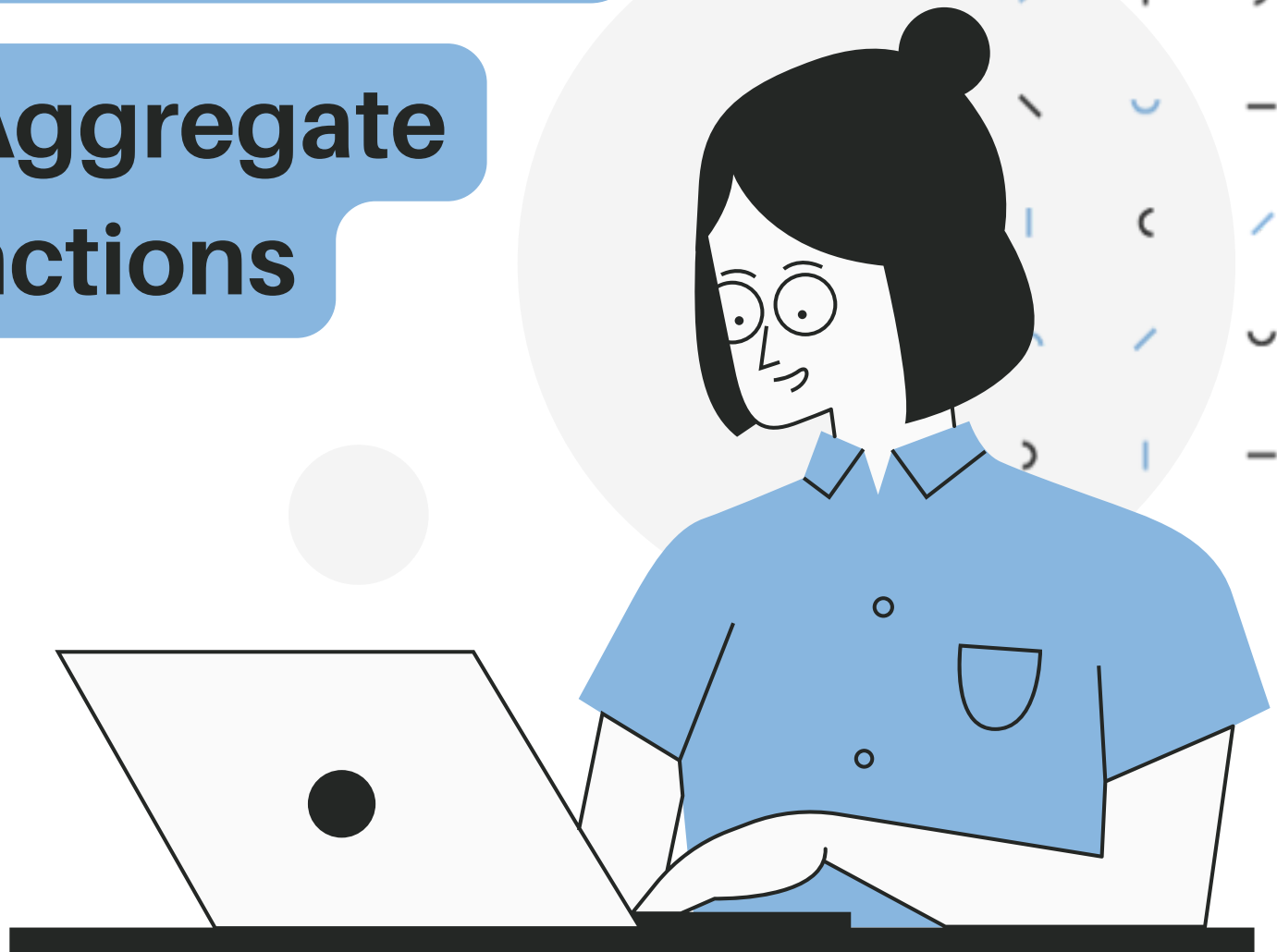


# LeetCode SQL 50

## Basic Aggregate Functions



## 620. Not Boring Movies

### Input:

Cinema table:

id	movie	description	rating
1	War	great 3D	8.9
2	Science	fiction	8.5
3	irish	boring	6.2
4	Ice song	Fantasy	8.6
5	House card	Interesting	9.1

### Output:

id	movie	description	rating
5	House card	Interesting	9.1
1	War	great 3D	8.9

```
Select *
From Cinema
Where
    (id % 2) != 0
    And description != 'boring'
Order by
    rating DESC;
```

# 1251. Average Selling Price

## Input:

Prices table:

product_id	start_date	end_date	price
1	2019-02-17	2019-02-28	5
1	2019-03-01	2019-03-22	20
2	2019-02-01	2019-02-20	15
2	2019-02-21	2019-03-31	30

UnitsSold table:

product_id	purchase_date	units
1	2019-02-25	100
1	2019-03-01	15
2	2019-02-10	200
2	2019-03-22	30

## Output:

product_id	average_price
1	6.96
2	16.96

```
Select
    p.product_id, COALESCE(
        Round(sum(p.price * u.units)/ sum(u.units), 2), 0)
    As average_price
From
    Prices p
    Left Join UnitsSold u On p.product_id = u.product_id
Where
    u.purchase_date Between p.start_date
    And p.end_date
    Or p.product_id NOT IN (
        select
            u.product_id
        from
            UnitsSold u)
Group By
    p.product_id;
```

# 1075. Project Employees I

## Input:

Project table:

project_id	employee_id
1	1
1	2
1	3
2	1
2	4

Employee table:

employee_id	name	experience_years
1	Khaled	3
2	Ali	2
3	John	1
4	Doe	2

## Output:

project_id	average_years
1	2.00
2	2.50

```
Select
  p.project_id,
  Round((Sum(e.experience_years)/ Count(p.project_id)),2)
  As average_years
From
  Project p
  Join Employee e On p.employee_id = e.employee_id
Group by
  p.project_id;
```

# 1633. Percentage of Users Attended a Contest

Input:

Users table:

user_id	user_name
6	Alice
2	Bob
7	Alex

Register table:

contest_id	user_id
215	6
209	2
208	2
210	6
208	6
209	7
209	6
215	7
208	7
210	2
207	2
210	7

```
Select
    contest_id,
    round(((Count(user_id)/(
        select count(user_id)
        from Users
    ))* 100),2) As percentage
From Register
Group by contest_id
Order by
    percentage DESC,
    contest_id ASC;
```

# 1211. Queries Quality and Percentage

## Input:

Queries table:

query_name	result	position	rating
Dog	Golden Retriever	1	5
Dog	German Shepherd	2	5
Dog	Mule	200	1
Cat	Shirazi	5	2
Cat	Siamese	3	3
Cat	Sphynx	7	4

## Output:

query_name	quality	poor_query_percentage
Dog	2.50	33.33
Cat	0.66	33.33

```
Select
    query_name,
    Round(Avg(rating / position),2) As quality,
    Round(AVG(if((rating < 3), 1,0))* 100, 2)
    As poor_query_percentage
from
    Queries
Where query_name Is Not Null
Group by
    query_name;
```

# 1193. Monthly Transactions I

## Input:

Transactions table:

id	country	state	amount	trans_date
121	US	approved	1000	2018-12-18
122	US	declined	2000	2018-12-19
123	US	approved	2000	2019-01-01
124	DE	approved	2000	2019-01-07

## Output:

month	country	trans_count	approved_count	trans_total_amount	approved_total_amount
2018-12	US	2	1	3000	1000
2019-01	US	1	1	2000	2000
2019-01	DE	1	1	2000	2000

## Select

```
date_format(trans_date, "%Y-%m") as month,  
country,  
count(trans_date) As trans_count,  
sum(  
    if(state = 'approved', 1, 0)  
) as approved_count,  
sum(amount) as trans_total_amount,  
sum(  
    if(state = 'approved', amount, 0)  
) as approved_total_amount
```

## From

Transactions

## Group by

```
month,  
country;
```

Created by: Bhawna Gupta

# 1174. Immediate Food Delivery II

## Input:

Delivery table:

delivery_id	customer_id	order_date	customer_pref_delivery_date
1	1	2019-08-01	2019-08-02
2	2	2019-08-02	2019-08-02
3	1	2019-08-11	2019-08-12
4	3	2019-08-24	2019-08-24
5	3	2019-08-21	2019-08-22
6	2	2019-08-11	2019-08-13
7	4	2019-08-09	2019-08-09

## Output:

immediate_percentage
50.00

```
Select
  Round(Avg(If(order_date = customer_pref_delivery_date,1,0)* 100),2)
  As immediate_percentage
From
  Delivery
Where
  (customer_id, order_date) In
  (Select
    customer_id,
    min(order_date)
  from Delivery
  group by customer_id);
```



## 550. Game Play Analysis IV

### Input:

Activity table:

player_id	device_id	event_date	games_played
1	2	2016-03-01	5
1	2	2016-03-02	6
2	3	2017-06-25	1
3	1	2016-03-02	0
3	4	2018-07-03	5

### Output:

fraction
0.33

```
Select
    Round(Count(Distinct player_id)/
        (Select Count(Distinct player_id)
         from Activity),2) As fraction
From Activity
Where
    (player_id, event_date) in (
        Select
            player_id,
            date_add(
                min(event_date),
                interval 1 day)
        from activity
        group by player_id);
```