

1050. Actors and Directors Who Cooperated At Least Three Times

[Actors and Directors Who Cooperated At Least Three Times - LeetCode](https://leetcode.com/problems/actors-and-directors-who-cooperated-at-least-three-times/)

MySQL:

<https://leetcode.com/problems/actors-and-directors-who-cooperated-at-least-three-times/submissions/1828996050>

 Code

MySQL   Auto

```
1 SELECT actor_id, director_id
2 FROM ActorDirector
3 GROUP BY actor_id, director_id
4 HAVING COUNT(timestamp) >= 3
```

Pandas:

<https://leetcode.com/problems/actors-and-directors-who-cooperated-at-least-three-times/submissions/1829005045>

 Code

Pandas   Auto

```
1 import pandas as pd
2
3 def actors_and_directors(actor_director: pd.DataFrame) -> pd.DataFrame:
4     counts = (
5         actor_director
6         .groupby(['actor_id', 'director_id'])['timestamp']
7         .size()
8         .reset_index(name='cnt')
9     )
10    return counts[counts['cnt'] >= 3][['actor_id', 'director_id']]
```

1667. Fix Names in a Table

[Fix Names in a Table - LeetCode](https://leetcode.com/problems/fix-names-in-a-table/)

MySQL:

<https://leetcode.com/problems/fix-names-in-a-table/submissions/1829009997>

 Code

MySQL   Auto

```
1 SELECT user_id,  
2 CONCAT(UPPER(SUBSTR(name, 1, 1)), LOWER(SUBSTR(name, 2))) AS name  
3 FROM Users  
4 ORDER BY user_id ASC
```

Pandas:

<https://leetcode.com/problems/fix-names-in-a-table/submissions/1829013204>

 Code

Pandas   Auto

```
1 import pandas as pd  
2  
3 def fix_names(users: pd.DataFrame) -> pd.DataFrame:  
4     users["name"] = users["name"].apply(lambda x: x[:1].upper() + x[1:].lower())  
5     return users.sort_values(by="user_id")
```

175. Combine Two Tables

[Combine Two Tables - LeetCode](https://leetcode.com/problems/combine-two-tables/)

MySQL:

<https://leetcode.com/problems/combine-two-tables/submissions/1829016234>

 Code

MySQL   Auto

```
1 SELECT P.firstName, P.lastName, A.city, A.state
2 FROM Person as P
3 LEFT JOIN Address as A
4 ON P.personId = A.personId
```

Pandas:

<https://leetcode.com/problems/combine-two-tables/submissions/1829022017>

 Code  Testcase

Pandas   Auto

```
1 import pandas as pd
2
3 def combine_two_tables(person: pd.DataFrame, address: pd.DataFrame) -> pd.DataFrame:
4     merged = pd.merge(person, address, on="personId", how="left")
5     merged = merged.drop(columns=['personId'])
6     return merged[['firstName', 'lastName', 'city', 'state']]
```

176. Second Highest Salary

[Second Highest Salary - LeetCode](https://leetcode.com/problems/second-highest-salary/)

MySQL:

<https://leetcode.com/problems/second-highest-salary/submissions/1829025158>

 Code

MySQL   Auto

```
1 SELECT
2     (SELECT DISTINCT salary
3      FROM Employee
4      ORDER BY salary DESC
5      LIMIT 1 OFFSET 1) AS SecondHighestSalary
```

Pandas:

<https://leetcode.com/problems/second-highest-salary/submissions/1829028435>

 Code |  Pandas Schema 

Pandas   Auto

```
1 import pandas as pd
2
3 def second_highest_salary(employee: pd.DataFrame) -> pd.DataFrame:
4     salaries = sorted(employee["salary"].unique(), reverse=True)
5
6     if len(salaries) < 2:
7         return pd.DataFrame([[np.nan]], columns=["SecondHighestSalary"])
8
9     return pd.DataFrame([salaries[1]], columns=["SecondHighestSalary"])
```

1327. List the Products Ordered in a Period

<https://leetcode.com/problems/list-the-products-ordered-in-a-period/>

MySQL:

<https://leetcode.com/problems/list-the-products-ordered-in-a-period/submissions/1829152506>

 Code

MySQL   Auto

```
1 SELECT P.product_name, SUM(O.unit) as unit
2 FROM Products AS P
3 RIGHT JOIN Orders as O
4 ON P.product_id = O.product_id
5 WHERE O.order_date BETWEEN '2020-02-01' AND '2020-02-29'
6 GROUP BY P.product_id
7 HAVING unit >= 100
```

Pandas:

<https://leetcode.com/problems/list-the-products-ordered-in-a-period/submissions/1829282672>

 Code 

Pandas   Auto    

```
1 import pandas as pd
2
3 def list_products(products: pd.DataFrame, orders: pd.DataFrame) -> pd.
  DataFrame:
4     orders["order_date"] = pd.to_datetime(orders["order_date"])
5     feb = orders[
6         (orders["order_date"].dt.year == 2020) &
7         (orders["order_date"].dt.month == 2)
8     ]
9     totals = feb.groupby("product_id", as_index=False)["unit"].sum()
10    heavy = totals[totals["unit"] >= 100]
11    result = heavy.merge(products, on="product_id")[["product_name", "unit"]]
12    return result
```

1378. Replace Employee ID With The Unique Identifier

<https://leetcode.com/problems/replace-employee-id-with-the-unique-identifier/>

MySQL:

<https://leetcode.com/problems/replace-employee-id-with-the-unique-identifier/submissions/1829284645>

 Code

MySQL   Auto





```
1 SELECT u.unique_id, e.name
2 FROM Employees AS e
3 LEFT JOIN EmployeeUNI AS u
4 ON e.id = u.id
```

Pandas:

<https://leetcode.com/problems/replace-employee-id-with-the-unique-identifier/submissions/1829285997>

 Code

Pandas   Auto

```
1 import pandas as pd
2
3 def replace_employee_id(employees: pd.DataFrame, employee_uni: pd.DataFrame) -> pd.DataFrame:
4     merged = pd.merge(employees, employee_uni, how="left", on="id")
5     return merged[["unique_id", "name"]]
```

550. Game Play Analysis IV

<https://leetcode.com/problems/game-play-analysis-iv/>

MySQL:

<https://leetcode.com/problems/game-play-analysis-iv/submissions/1829287170>

```
</> Code
MySQL ▾ 🔒 Auto

1  SELECT
2      ROUND(
3          COUNT(a2.player_id) / COUNT(DISTINCT a1.player_id),
4          2
5      ) AS fraction
6  FROM
7      (SELECT player_id, MIN(event_date) AS first_login
8       FROM Activity
9       GROUP BY player_id) AS a1
10 LEFT JOIN Activity AS a2
11     ON a1.player_id = a2.player_id
12     AND a2.event_date = DATE_ADD(a1.first_login, INTERVAL 1 DAY);
13
```

Pandas:

<https://leetcode.com/problems/game-play-analysis-iv/submissions/1829287977>

```
</> Code
Pandas ▾ 🔒 Auto

1  import pandas as pd
2
3  def gameplay_analysis(activity: pd.DataFrame) -> pd.DataFrame:
4      activity["event_date"] = pd.to_datetime(activity["event_date"])
5      first_login = (
6          activity.groupby("player_id", as_index=False)["event_date"]
7              .min()
8              .rename(columns={"event_date": "first_login"})
9      )
10     merged = first_login.merge(activity, on="player_id", how="left")
11     next_day = merged[
12         merged["event_date"] == merged["first_login"] + pd.Timedelta(days=1)
13     ]
14     num_next_day = next_day["player_id"].nunique()
15     total_players = first_login["player_id"].nunique()
16     fraction = round(num_next_day / total_players, 2)
17     return pd.DataFrame({"fraction": [fraction]})
```

1075. Project Employees I

<https://leetcode.com/problems/project-employees-i/>

MySQL:

<https://leetcode.com/problems/project-employees-i/submissions/1829291158>

</> Code

MySQL ▾ 🔒 Auto

```
1 SELECT p.project_id, ROUND(AVG(e.experience_years), 2) AS average_years
2 FROM Project AS p
3 INNER JOIN Employee as e
4 ON p.employee_id = e.employee_id
5 GROUP BY p.project_id
```

Pandas:

<https://leetcode.com/problems/project-employees-i/submissions/1829293005>

</> Code

Pandas ▾ 🔒 Auto

```
1 import pandas as pd
2
3 def project_employees_i(project: pd.DataFrame, employee: pd.DataFrame) -> pd.DataFrame:
4     merged = pd.merge(project, employee, how="inner", on="employee_id")
5     result = (
6         merged.groupby("project_id", as_index=False)["experience_years"]
7         .mean()
8         .round(2)
9         .rename(columns={"experience_years": "average_years"})
10    )
11    return result
```

185. Department Top Three Salaries

<https://leetcode.com/problems/department-top-three-salaries/>

MySQL:

<https://leetcode.com/problems/department-top-three-salaries/submissions/1829297370>

```
</> Code
MySQL ▾ 🔒 Auto

1  SELECT
2      d.name AS Department,
3      e.name AS Employee,
4      e.salary AS Salary
5  FROM (
6      SELECT *,
7          DENSE_RANK() OVER (
8              PARTITION BY departmentId
9              ORDER BY salary DESC
10         ) AS rnk
11     FROM Employee
12 ) AS e
13 JOIN Department d
14     ON e.departmentId = d.id
15 WHERE rnk <= 3;
16
```

Pandas:

<https://leetcode.com/problems/department-top-three-salaries/submissions/1829297921>

```
</> Code
Pandas ▾ 🔒 Auto

1  import pandas as pd
2
3  def top_three_salaries(employee: pd.DataFrame, department: pd.DataFrame) -> pd.DataFrame:
4      merged = employee.merge(department, left_on="departmentId", right_on="id", how="inner")
5      merged["salary_rank"] = (
6          merged.groupby("departmentId")["salary"]
7          .rank(method="dense", ascending=False)
8      )
9      top3 = merged[merged["salary_rank"] <= 3]
10     return top3[["name_y", "name_x", "salary"]].rename(
11         columns={"name_y": "Department", "name_x": "Employee", "salary": "Salary"}
12     )
```