

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](#)

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](#)

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 X

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

☰ ⌂ { } ⌂

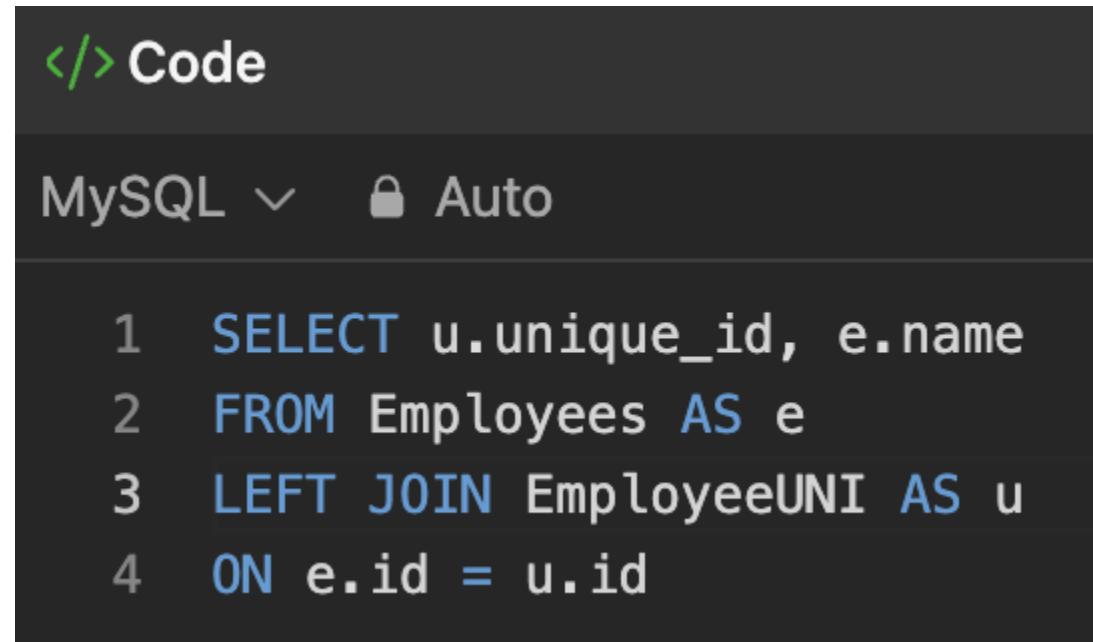
```
1 import pandas as pd
2
3 def list_products(products: pd.DataFrame, orders: pd.DataFrame) -> pd.
4     DataFrame:
5         orders["order_date"] = pd.to_datetime(orders["order_date"])
6         feb = orders[
7             (orders["order_date"].dt.year == 2020) &
8             (orders["order_date"].dt.month == 2)
9         ]
10        totals = feb.groupby("product_id", as_index=False)[["unit"]].sum()
11        heavy = totals[totals["unit"] >= 100]
12        result = heavy.merge(products, on="product_id")[["product_name", "unit"]]
13        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>



The image shows a screenshot of a MySQL code editor. At the top, there's a green 'Code' button and a dropdown menu set to 'MySQL'. Below that is a toolbar with a lock icon and the word 'Auto'. The main area contains the following SQL code:

```
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>



The image shows a screenshot of a Pandas code editor. At the top, there's a green 'Code' button and a dropdown menu set to 'Pandas'. Below that is a toolbar with a lock icon and the word 'Auto'. The main area contains the following Python code:

```
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    )
```