

Exercises: JOINS

You can check your solutions here: <https://judge.softuni.org/Contests/3137/JOINS>.

1. Employee Address

Write a query that selects:

- **EmployeeId**
- **JobTitle**
- **AddressId**
- **AddressText**

Return the **first 5 rows sorted** by **AddressId** in **ascending** order.

Example:

| EmployeeId | JobTitle | AddressId | AddressText |
|------------|-------------------------|-----------|--------------------|
| 142 | Production Technician | 1 | 108 Lakeside Court |
| 30 | Human Resources Manager | 2 | 1341 Prospect St |
| ... | ... | ... | ... |

2. Employee Departments

Write a query that selects:

- **EmployeeID**
- **FirstName**
- **Salary**
- **DepartmentName**

Filter only **employees** with **salary higher than 15000**. Return the **first 5 rows sorted** by **DepartmentID** in **ascending** order.

Example:

| EmployeeID | FirstName | Salary | DepartmentName |
|------------|-----------|----------|----------------|
| 3 | Roberto | 43300.00 | Engineering |
| 9 | Gail | 32700.00 | Engineering |
| ... | ... | ... | ... |

3. Employees Without Project

Write a query that selects:

- **EmployeeID**
- **FirstName**

Filter only **employees without** a **project**. Return the **first 3 rows sorted** by **EmployeeID** in **ascending** order.

Example:

| EmployeeID | FirstName |
|------------|-----------|
| 2 | Kevin |
| 6 | David |
| ... | ... |

4. Employees with Project

Write a query that selects:

- EmployeeID
- FirstName
- ProjectName

Filter only **employees** with a **project** which has **started after 13.08.2002** and it is still **ongoing** (no end date). Return the **first 5 rows sorted by EmployeeID in ascending order**.

Example

| EmployeeID | FirstName | ProjectName |
|------------|-----------|------------------|
| 1 | Guy | Racing Socks |
| 1 | Guy | Road Bottle Cage |
| ... | ... | ... |

5. Employee 24

Write a query that selects:

- EmployeeID
- FirstName
- ProjectName

Filter all the **projects** of **employee** with **Id 24**. If the project has **started during or after 2005** the **returned value** should be **NULL**.

Example

| EmployeeID | FirstName | ProjectName |
|------------|-----------|-------------|
| 24 | David | NULL |
| 24 | David | Road-650 |
| ... | ... | ... |

6. Employee Manager

Write a query that selects:

- EmployeeID
- FirstName
- ManagerID
- ManagerName

Filter all **employees** with a **manager** who has **ID** equals to **3** or **7**. Return all the rows, **sorted** by **EmployeeID** in **ascending** order.

Example

| EmployeeID | FirstName | ManagerID | ManagerName |
|------------|-----------|-----------|-------------|
| 4 | Rob | 3 | Roberto |
| 9 | Gail | 3 | Roberto |
| ... | ... | ... | ... |

7. Highest Peaks in Bulgaria

Write a query that selects:

- **CountryCode**
- **MountainRange**
- **PeakName**
- **Elevation**

Filter all **peaks** in **Bulgaria** with **elevation** over **2835**. Return all the rows **sorted** by **elevation** in **descending** order.

Example

| CountryCode | MountainRange | PeakName | Elevation |
|-------------|---------------|----------|-----------|
| BG | Rila | Musala | 2925 |
| BG | Pirin | Vihren | 2914 |
| ... | ... | ... | ... |

8. Count Mountain Ranges

Write a query that selects:

- **CountryCode**
- **MountainRanges**

Filter the **count** of the **mountain ranges** in the **United States**, **Russia** and **Bulgaria**.

Example

| CountryCode | MountainRanges |
|-------------|----------------|
| BG | 6 |
| RU | 1 |
| ... | ... |

9. Countries with Rivers

Write a query that selects:

- **CountryName**
- **RiverName**

Find the **first 5 countries** with or without **rivers** in **Africa**. Sort them by **CountryName** in **ascending** order.

Example

| CountryName | RiverName |
|--------------|-----------|
| Algeria | Niger |
| Angola | Congo |
| Benin | Niger |
| Botswana | NULL |
| Burkina Faso | Niger |