Attendance Table (from 18/12/2022 to 29/12/2022)

ysql> select *	from Attend	ance;	Valoria de la companio della compani	.		
AttendanceID	EmpDeptID	Date	CheckInTime	CheckOutTime	NoOfHoursWorked	
A001	ED001	2022-12-18	09:00:00	18:00:00	09:00:00	
A002	ED004	2022-12-18	09:00:00	18:00:00	09:00:00	
A003	ED005	2022-12-18	09:00:00	18:00:00	09:00:00	
A004	ED003	2022-12-18	09:00:00	18:00:00	09:00:00	
A005	ED008	2022-12-18	09:00:00	18:00:00	09:00:00	
A006	ED010	2022-12-18	09:00:00	18:00:00	09:00:00	
A007	ED002	2022-12-19	09:00:00	18:00:00	09:00:00	
A008	ED005	2022-12-19	09:00:00	18:00:00	09:00:00	
A009	ED007	2022-12-19	09:00:00	18:00:00	09:00:00	
A010	ED008	2022-12-19	09:00:00	18:00:00	09:00:00	
A011	ED001	2022-12-20	09:00:00	18:00:00	09:00:00	
A012	ED002	2022-12-20	09:00:00	18:00:00	09:00:00	
A013	ED003	2022-12-20	09:00:00	18:00:00	09:00:00	
A014	ED004	2022-12-20	09:00:00	18:00:00	09:00:00	
A015	ED005	2022-12-20	09:00:00	18:00:00	09:00:00	
A016	ED001	2022-12-21	09:00:00	18:00:00	09:00:00	
A017	ED003	2022-12-21	09:00:00	18:00:00	09:00:00	
A018	ED004	2022-12-21	09:00:00	18:00:00	09:00:00	
A019	ED008	2022-12-21	09:00:00	18:00:00	09:00:00	
A020	ED010	2022-12-21	09:00:00	18:00:00	09:00:00	
A021	ED005	2022-12-21	09:00:00	18:00:00	09:00:00	
A022	ED007	2022-12-21	09:00:00	18:00:00	09:00:00	
A023	ED006	2022-12-21	09:00:00	18:00:00	09:00:00	
A024	ED002	2022-12-22	09:00:00	18:00:00	09:00:00	
A025	ED003	2022-12-22	09:00:00	18:00:00	09:00:00	
A026	ED006	2022-12-22	09:00:00	18:00:00	09:00:00	
A027	ED008	2022-12-22	09:00:00	18:00:00	09:00:00	
A028	ED010	2022-12-22	09:00:00	18:00:00	09:00:00	
A029	ED007	2022-12-22	09:00:00	18:00:00	09:00:00	
A030	ED005	2022-12-22	09:00:00	18:00:00	09:00:00	
A031	ED003	2022-12-26	09:00:00	18:00:00	09:00:00	
A032	ED005	2022-12-26	09:00:00	18:00:00	09:00:00	
A033	ED007	2022-12-26	09:00:00	18:00:00	09:00:00	
A034	ED006	2022-12-26	09:00:00	18:00:00	09:00:00	
A035	ED001	2022-12-20	09:00:00	18:00:00	09:00:00	
A036	ED003	2022-12-27	09:00:00	18:00:00	09:00:00	
A037	ED007	2022-12-27	09:00:00	18:00:00	09:00:00	
A038	ED007	2022-12-27	09:00:00			
A039		A CONTRACTOR OF THE PARTY OF TH		18:00:00	09:00:00	
140000	ED005	2022-12-27	09:00:00	18:00:00	09:00:00	
A040 A041	ED005	2022-12-28	09:00:00	18:00:00	09:00:00	
	ED001	2022-12-28	09:00:00	18:00:00	09:00:00	
A042	ED002	2022-12-28	09:00:00	18:00:00	09:00:00	
A043	ED008	2022-12-28	09:00:00	18:00:00	09:00:00	
A044	ED007	2022-12-28	09:00:00	18:00:00	09:00:00	
A045	ED003	2022-12-28	09:00:00	18:00:00	09:00:00	
A046	ED005	2022-12-29	09:00:00	18:00:00	09:00:00	
A047	ED002	2022-12-29	09:00:00	18:00:00	09:00:00	
A048	ED003	2022-12-29	09:00:00	18:00:00	09:00:00	
A049	ED007	2022-12-29	09:00:00	18:00:00	09:00:00	
A050	ED008	2022-12-29	09:00:00	18:00:00	09:00:00	

Employee Table

EmployeeID	Name .	Address	Phone	Email
E001	John Doe	123 Main St, City	555-1234	john.doe@email.com
E002	Jane Smith	456 Oak Ave, Town	555-5678	jane.smith@email.com
E003	Robert Johnson	789 Pine Rd, Village	555-9876	robert.j@email.com
E004	Sarah Brown	101 Elm Blvd, Metropolis	555-4321	sarah.brown@email.com
E005	Alex Turner	202 Cedar Lane, Suburb	555-8765	alex.turner@email.com
E006	Emma White	555 Birch Street, Town	555-3456	emma.white@email.com
E007	David Miller	789 Oakwood Drive, City	555-7890	david.miller@email.com
E008	Olivia Lee	321 Maple Ave, Suburb	555-2345	olivia.lee@email.com
E009	Michael Wilson	456 Pine Street, Village	555-6789	michael.wilson@email.com
E010	Sophia Davis	987 Cedar Lane, Town	555-1236	sophia.davis@email.com

Employee Department Mapping Table

EmpDeptID	EmployeeID	DepartmentID	JobTitle	JoiningDate
ED001	 E001	D001	Software Engineer	2021-07-15
ED002	E002	D002	HR Specialist	2022-04-02
ED003	E003	D004	Marketing Manager	2023-11-20
ED004	E004	D004	Sales Executive	2020-09-08
ED005	E005	D001	IT Manager	2021-12-30
ED006	E006	D003	Accountant	2022-06-18
ED007	E007	D005	Project Manager	2020-03-12
ED008	E008	D004	Marketing Specialist	2023-02-25
ED009	E009	D002	Data Analyst	2021-08-04
ED010	E010	D001	Software Developer	2022-10-14

Number of Leaves taken by employees

		tment Mapping`.EmpDeptID,Employee.Name,
		t.Date) as NumberOfLeaves
-> from `Em	ployee-Departme	ment Mapping` inner join Employee on
-> `Employe	e-Department Ma	<pre>lapping`.EmployeeID = Employee.EmployeeID</pre>
-> cross jo	in (select dist	tinct date from attendance) DateList
-> left joi	n Attendance or	n
-> `Employe	e-Department Ma	<pre>lapping`.EmpDeptID = Attendance.EmpDeptID</pre>
-> and Date	List.Date = Att	tendance.Date
-> where At	tendance.Empde	ptID is NULL
-> group by	`Employee-Depa	partment Mapping`.EmpDeptID,Employee.Name
-> order by	`Employee-Depa	partment Mapping`.EmpDeptID;
		++
EmpDeptID N	lame	NumberOfLeaves
		++
ED001 3	lohn Doe	4
ED002	ane Smith	4
ED003 F	obert Johnson	2
ED004 S	arah Brown	4
ED006 E	mma White	6
ED007 D	avid Miller	2
ED008 C	livia Lee	3
ED009 N	Michael Wilson	9
ED010 S	Sophia Davis	6

1. List the employees who were not present during 21-12-2022 to 27-12-2022

```
nl> select `Employee-Department Mapping`.EmpDeptId,Employee.Name,SearchDate.Date
-> from `Employee-Department Mapping` inner join Employee on
-> `Employee-Department Mapping`.EmployeeID = Employee.EmployeeID inner join (
-> select distinct Date from Attendance where Date between '2022-12-21' and '2022-12-27') SearchDate
   -> where not exists(
   -> select 1 from Attendance where `Employee-Department Mapping`.EmpDeptID = Attendance.EmpDeptID and -> SearchDate.Date = Attendance.Date)
   -> order by SearchDate.Date;
EmpDeptId | Name
                   Michael Wilson | 2022-12-21
ED009
ED004
                                              2022-12-22
2022-12-22
                   Michael Wilson
                   Sarah Brown
                   John Doe
                                              2022-12-22
                   Sophia Davis
Michael Wilson
                                              2022-12-26
2022-12-26
ED010
ED009
ED008
                   Olivia Lee
                                              2022-12-26
                   Robert Johnson
Jane Smith
John Doe
ED003
                                              2022-12-26
2022-12-26
ED002
ED001
                                              2022-12-26
                                              2022-12-27
2022-12-27
ED010
                   Sophia Davis
ED009
                   Michael Wilson
ED008
                   Olivia Lee
                   Emma White
Jane Smith
ED006
                                              2022-12-27
ED002
                                              2022-12-27
```

2. List all the employees who have loss of pay (Assumed loss of pay occurs when number of leaves is greater than 5)

```
mysql> select `Employee-Department Mapping`.EmpDeptID,Employee.Name,
    -> count(distinct DateList.Date) as NumberOfLeaves
    -> from `Employee-Department Mapping` inner join Employee on
    -> `Employee-Department Mapping`.EmployeeID = Employee.EmployeeID
    -> cross join (select distinct date from attendance) DateList
    -> left join Attendance on
    -> `Employee-Department Mapping`.EmpDeptID = Attendance.EmpDeptID
    -> and DateList.Date = Attendance.Date
    -> where Attendance.EmpdeptID is NULL
    -> group by `Employee-Department Mapping`.EmpDeptID,Employee.Name
    -> having NumberOfLeaves > 5
    -> order by `Employee-Department Mapping`.EmpDeptID;
  EmpDeptID Name
                             | NumberOfLeaves |
                                            6
  ED006
              Emma White
                                            9
  ED009
             Michael Wilson
            Sophia Davis
  ED010
                                            6
```