

7. Execute the following queries

a. For each project, retrieve the project number, the project name, and the number of employee who work on that project.(use GROUP BY)

b. Retrieve the name of employees who born in the year 1990"s

a. Retrieve project number, project name, and number of employees working on each project.

```
SELECT p.ProjectID, p.ProjectName,  
COUNT(ep.EmpID) AS NumberOfEmployees  
FROM Projects p  
LEFT JOIN Employee_Project ep ON p.ProjectID = ep.ProjectID GROUP  
BY p.ProjectID, p.ProjectName;
```

	ProjectID	ProjectName	NumberOfEmployees
▶	1	Project A	4
	2	Project B	3
	3	Project C	2

b. Retrieve names of employees born in the 1990s (assuming a date of birth field).

Note: We'll need to assume there's a `DOB` (date of birth) field in the `Employees` table.

```
SELECT EmpName  
FROM Employees  
WHERE YEAR(DOB) BETWEEN 1990 AND 1999;
```

	EmpName
▶	Alice
	Bob
	Charlie
	David
	Eve
	Frank
	Grace
	Heidi

8. For each department that has more than five employees, retrieve the department number and number of employees who are making salary more than 40000.

Retrieve department number and number of employees making more than 40,000.

```
SELECT DeptID, COUNT(EmpID) AS NumberOfEmployees
FROM Employees
WHERE Salary > 40000
GROUP BY DeptID
HAVING COUNT(EmpID) > 5;
```

	DeptID	NumberOfEmployees
▶	5	6

9. For each project on which more than two employees work, retrieve the project number, project name and the number of employees who work on that project.

For projects with more than two employees.

```
SELECT p.ProjectID, p.ProjectName, COUNT(EmpID) AS  
NumberOfEmployees  
FROM Projects p  
JOIN Employee_Project ep ON p.ProjectID = ep.ProjectID  
GROUP BY ProjectID, ProjectName  
HAVING COUNT(EmpID) > 2;
```

	ProjectID	ProjectName	NumberOfEmployees
▶	1	Project A	4
	2	Project B	3

10. For a given set of relation tables perform the following

- a. Creating Views (with and without check option), Dropping views, Selecting from a view.

- a. Creating a View

```
CREATE VIEW HighSalaryEmployees AS  
SELECT EmpName, Salary  
FROM Employees  
WHERE Salary > 60000;
```

- b. Selecting from a View

```
SELECT * FROM HighSalaryEmployees;
```

	EmpName	Salary
▶	Frank	70000.00
	Grace	80000.00
	Heidi	65000.00
	Judy	90000.00
	Judy	90000.00
	Judy	100000.00
	Judy	200000.00
	Judy	300000.00

a. Creating a View

```
CREATE VIEW HighSalaryEmployees AS
SELECT EmpName, Salary
FROM Employees
WHERE Salary > 60000;
```

b. Dropping a View

```
DROP VIEW IF EXISTS HighSalaryEmployees;
```

c. Selecting from a View

```
SELECT * FROM HighSalaryEmployees;
```

✓	9	17:35:09	CREATE VIEW HighSalaryEmployees AS SELECT EmpName, Salary FROM Employees WHERE Salary > 6...	0 row(s) affected
✓	10	17:35:17	DROP VIEW IF EXISTS HighSalaryEmployees	0 row(s) affected
✗	11	17:35:29	SELECT * FROM HighSalaryEmployees LIMIT 0, 1000	Error Code: 1146. Table 'program.highsalaryemployees' doesn't exist