1. **Find all persons with their department name & code.**

```
SELECT
        Person.PersonName,
        Department.DepartmentName,
        Department.DepartmentCode
FROM Person
INNER JOIN Department
ON Person.DepartmentID=Department.DepartmentID
```

2. **Find person's name whose department located in C-Block.**

```
SELECT
        Person.PersonName,
        Department.DepartmentName,
        Department.Location
FROM Person
INNER JOIN Department
ON Person.DepartmentID=Department.DepartmentID
WHERE Department.Location='C-Block'
```

3. **Retrieve person name, salary & department name who belongs to Jamnagar city.**

```
SELECT
        Person.PersonName,
        Person.City,
        Person.Salary,
        Department.DepartmentName
FROM Person
LEFT OUTER JOIN Department
ON Person.DepartmentID=Department.DepartmentID
WHERE Person.City='Jamnagar'
```

4. **Retrieve person name, salary & department name who does not belongs to Rajkot city.**

```
SELECT
        Person.PersonName,
        Person.City,
        Person.Salary,
        Department.DepartmentName
FROM Person
LEFT OUTER JOIN Department
ON Person.DepartmentID=Department.DepartmentID
WHERE Person.City<>'Rajkot'
```

5. **Find detail of all persons who belongs Computer department.**

```
SELECT
        Person.PersonName,
        Person.City,
        Person.Salary,
        Person.JoiningDate,
        Department.DepartmentName,
```

```
        Department.Location
FROM Person
INNER JOIN Department
ON Person.DepartmentID=Department.DepartmentID
WHERE Department.DepartmentName='Computer'
```

6. **Find all persons who does not belongs to any department.**

```
SELECT
        Person.PersonName
FROM Person
WHERE Person.DepartmentID is NULL
```

7. **Retrieve person's name who joined Civil department after 1-Aug-2001.**

```
SELECT
        Person.PersonName,
        Department.DepartmentName,
        Person.JoiningDate
FROM Person
LEFT OUTER JOIN Department
ON Person.DepartmentID=Department.DepartmentID
WHERE Person.JoiningDate>'1-Aug-2001' and Department.DepartmentName='Civil'
```

8. **Display all the person's name with department whose joining dates difference with current date is more than 365 days.**

```
SELECT
        Person.PersonName,
        Department.DepartmentName,
        Person.JoiningDate
FROM Person
INNER JOIN Department
ON Person.DepartmentID=Department.DepartmentID
WHERE DATEDIFF(DAY,Person.JoiningDate,GETDATE())>365
```

9. **Find department wise person counts.**

```
SELECT
        Department.DepartmentName,
        COUNT(Department.Departmentid) "Person count"
FROM Person
INNER JOIN Department
ON Person.DepartmentID=Department.DepartmentID
GROUP BY Department.DepartmentName
```

10. **Give department wise maximum & minimum salary with department name.**

```
SELECT
        Department.DepartmentName,
        MAX(Person.Salary) "Max Salary",
        MIN(Person.Salary) "Min Salary"
FROM Person
INNER JOIN Department
```

```
ON Person.DepartmentID=Department.DepartmentID
GROUP BY Department.DepartmentName
```

11. Find city wise total, average, maximum and minimum salary.

```
SELECT
        Person.City,
        Max(Person.Salary) as MaxSalary,
        MIN(Person.Salary) as MinSalary,
        AVG(Person.Salary) as AvgSalary,
        SUM(Person.Salary) as TotalSalary
FROM Person GROUP BY Person.City
```

12. Find all departments whose total salary is exceeding 100000.

```
SELECT
        Department.DepartmentName,
        SUM(Person.Salary) "Total Dept Salary"
FROM Person
INNER JOIN Department
ON Person.DepartmentID=Department.DepartmentID
GROUP BY Department.DepartmentName
HAVING SUM(Person.Salary)>100000
```

13. Find average salary of person who belongs to Ahmedabad city.

```
SELECT AVG(Person.Salary) as AvgSalary, Person.City
FROM Person
GROUP BY Person.City
HAVING Person.City='Ahmedabad'
```

14. List all departments who have no person.

```
SELECT
        Department.DepartmentName
FROM Person
FULL OUTER JOIN Department
ON Person.DepartmentID=Department.DepartmentID
GROUP BY Department.DepartmentName
HAVING COUNT (Person.DepartmentID) =0
```

15. List out department names in which more than two persons are working.

```
SELECT
        Department.DepartmentName,
        COUNT(*) as PersonCount
FROM Person
INNER JOIN Department
ON Person.DepartmentID=Department.DepartmentID
GROUP BY Department.DepartmentName
HAVING COUNT(Person.DepartmentID)>2
```

16. Produce Output Like: <PersonName> lives in <City> and works in <DepartmentName> Department. (In single column)

```
SELECT
```

```
        Person.PersonName + ' lives in ' + Person.City + ' and works in '
        + Department.DepartmentName + ' Department'
FROM Person
INNER JOIN Department
ON Person.DepartmentID=Department.DepartmentID
```

17. **Produce Output Like: <PersonName> earns <Salary> from department <DepartmentName> monthly. (In single column)**

```
SELECT
        Person.PersonName + ' earns ' + CAST(Salary as varchar) +
        ' from Department ' + Department.DepartmentName + ' monthly '
FROM Person
INNER JOIN Department
ON Person.DepartmentID=Department.DepartmentID
```

18. **Find city & department wise total, average & maximum salaries.**

```
SELECT
        Person.City,
        Department.DepartmentName,
        Max(Person.Salary) as MaxSalary,
        MIN(Person.Salary) as MinSalary,
        AVG(Person.Salary) as AvgSalary,
        SUM(Person.Salary) as TotalSalary
FROM Person
LEFT OUTER JOIN Department
ON Person.DepartmentID=Department.DepartmentID
GROUP BY Person.City, Department.DepartmentName
```

19. **Give 10% increment in Computer department employee's salary. (Use Update)**

```
UPDATE  Person
        SET Person.Salary=(Person.Salary+(Person.Salary*10)/100)
FROM Person
INNER JOIN Department
ON Person.DepartmentID=Department.DepartmentID
WHERE Department.DepartmentName='Computer'
```