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

1. **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'

1. **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'

1. **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'

1. **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'

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

SELECT

Person.PersonName

FROM Person

WHERE Person.DepartmentID is NULL

1. **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'

1. **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

1. **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

1. **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

1. **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

1. **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

1. **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'

1. **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

1. **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

1. **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

1. **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

1. **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

1. **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'