1. **SELECT employee.firstname, employee.lastname from employee where employee.emp\_id IN (SELECT workswith.emp\_id from workswith where workswith.totalSales > 10000)**

Database organisation

Table structure for table employee

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** |
| emp\_id | int(20) | Yes | NULL |
| firstname | varchar(20) | Yes | NULL |
| lastname | varchar(20) | Yes | NULL |
| bdate | date | Yes | NULL |
| salary | int(20) | Yes | NULL |
| branchid | varchar(20) | Yes | NULL |

Dumping data for table employee

|  |  |
| --- | --- |
| Sam | Newton |
| Elvin | Gomes |
| Jack | Sparrow |

1. **SELECT client.clientName FROM client WHERE branchid=(SELECT branch.branch\_id FROM branch WHERE BRANCH.mgr\_id=103)**

Database organisation

Table structure for table client

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** |
| client\_id | varchar(20) | Yes | NULL |
| clientName | varchar(20) | Yes | NULL |
| branchid | varchar(20) | Yes | NULL |

Dumping data for table client

Microsoft

1. **select firstname,lastname,salary from employee where salary=(SELECT max(salary) from employee WHERE branchid='B2');**

Database organisation

Table structure for table employee

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** |
| emp\_id | int(20) | Yes | NULL |
| firstname | varchar(20) | Yes | NULL |
| lastname | varchar(20) | Yes | NULL |
| bdate | date | Yes | NULL |

|  |  |  |  |
| --- | --- | --- | --- |
| salary | int(20) | Yes | NULL |
| branchid | varchar(20) | Yes | NULL |

Dumping data for table employee

|  |  |  |
| --- | --- | --- |
| Jack | Sparrow | 75000 |

1. **SELECT employee.firstname,employee.lastname from employee where employee.branchid=(SELECT client.branchid from client WHERE client.clientName='Google')**

Database organisation

Table structure for table employee

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** |
| emp\_id | int(20) | Yes | NULL |
| firstname | varchar(20) | Yes | NULL |
| lastname | varchar(20) | Yes | NULL |
| bdate | date | Yes | NULL |
| salary | int(20) | Yes | NULL |
| branchid | varchar(20) | Yes | NULL |

Dumping data for table employee

|  |  |
| --- | --- |
| Elvin | Gomes |
| Jack | Sparrow |

1. **SELECT employee.firstname, employee.lastname from employee where emp\_id= (SELECT workswith.emp\_id FROM workswith ORDER BY workswith.totalSales DESC LIMIT 1);**

Database organisation

Table structure for table employee

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** |
| emp\_id | int(20) | Yes | NULL |
| firstname | varchar(20) | Yes | NULL |
| lastname | varchar(20) | Yes | NULL |
| bdate | date | Yes | NULL |
| salary | int(20) | Yes | NULL |
| branchid | varchar(20) | Yes | NULL |

Dumping data for table employee

|  |  |
| --- | --- |
| Elvin | Gomes |

1. **SELECT employee.firstname, employee.lastname, (SELECT totalsales FROM workswith WHERE workswith.emp\_id = employee.emp\_id) AS Total\_Sales FROM employee WHERE employee.emp\_id IN (SELECT workswith.emp\_id FROM workswith)**

Database organisation

Table structure for table employee

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** |
| emp\_id | int(20) | Yes | NULL |
| firstname | varchar(20) | Yes | NULL |
| lastname | varchar(20) | Yes | NULL |
| bdate | date | Yes | NULL |
| salary | int(20) | Yes | NULL |
| branchid | varchar(20) | Yes | NULL |

Dumping data for table employee

|  |  |  |
| --- | --- | --- |
| Sam | Newton | 1000000 |
| Elvin | Gomes | 10000000 |
| Jack | Sparrow | 500000 |

1. **SELECT branchName from branch where branch\_id IN (Select branchid from employee WHERE employee.emp\_id =(SELECT emp\_id from workswith order by totalSales DESC LIMIT 1));**

Database organisation

Table structure for table branch

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** |
| branch\_id | varchar(20) | Yes | NULL |
| branchName | varchar(20) | Yes | NULL |
| mgr\_id | int(20) | Yes | NULL |
| startDate | date | Yes | NULL |

Dumping data for table branch

Admin

1. **SELECT clientName from client where branchid=(SELECT branch\_id from branch where branchName='Finance')**

Database organisation

Table structure for table client

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** |
| client\_id | varchar(20) | Yes | NULL |
| clientName | varchar(20) | Yes | NULL |
| branchid | varchar(20) | Yes | NULL |

Dumping data for table client

Microsoft

1. **SELECT firstname , lastname from employee where emp\_id IN (SELECT mgr\_id from branch where mgr\_id IN (SELECT emp\_id from workswith WHERE totalSales>100000))**

Database organisation

Table structure for table employee

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** |
| emp\_id | int(20) | Yes | NULL |
| firstname | varchar(20) | Yes | NULL |
| lastname | varchar(20) | Yes | NULL |
| bdate | date | Yes | NULL |
| salary | int(20) | Yes | NULL |
| branchid | varchar(20) | Yes | NULL |

Dumping data for table employee

|  |  |
| --- | --- |
| Sam | Newton |
| Jack | Sparrow |

1. **SELECT firstname,bdate from employee where emp\_id IN (SELECT emp\_id from workswith where client\_id=(SELECT client\_id from client where clientName='Microsoft'))**

Database organisation

Table structure for table employee

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** |
| emp\_id | int(20) | Yes | NULL |
| firstname | varchar(20) | Yes | NULL |
| lastname | varchar(20) | Yes | NULL |
| bdate | date | Yes | NULL |
| salary | int(20) | Yes | NULL |
| branchid | varchar(20) | Yes | NULL |

Dumping data for table employee

|  |  |
| --- | --- |
| Sam | 1960-07-02 |
| Jack | 1980-09-04 |

1. **SELECT firstname,lastname from employee where NOT EXISTS (SELECT emp\_id FROM workswith WHERE employee.emp\_id = workswith.emp\_id)**

Database organisation

Table structure for table employee

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** |
| emp\_id | int(20) | Yes | NULL |
| firstname | varchar(20) | Yes | NULL |
| lastname | varchar(20) | Yes | NULL |
| bdate | date | Yes | NULL |
| salary | int(20) | Yes | NULL |
| branchid | varchar(20) | Yes | NULL |

Dumping data for table employee

|  |  |
| --- | --- |
| Hussain | Sabri |

1. **SELECT clientName from client where EXISTS (select client\_id from workswith HAVING count(client\_id)>=2);**

Database organisation Table structure for table c

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** |
| client\_id | varchar(20) | Yes | NULL |
| clientName | varchar(20) | Yes | NULL |
| branchid | varchar(20) | Yes | NULL |

Dumping data for table c

Microsoft