

**Practice Joins**

***Hex 2551***

**Tables: EMPLOYEES,COUNTRIES,LOCATIONS,JOB\_HISTORY,DEPARTMENTS**

1. Write a query to display the last name, department number, and department name for all employees.

|  |  |  |
| --- | --- | --- |
| **LAST\_NAME** | **DEPARTMENT\_ID** | **DEPARTMENT\_NAME** |
| Rajs | 50 | Shipping |
| Davies | 50 | Shipping |
| Matos | 50 | Shipping |
| Ernst | 60 | IT |
| Lorence | 60 | IT |
| Mourgos | 60 | IT |
| King | 90 | Executive |
| Kochhar | 90 | Executive |
| De Haan | 90 | Executive |

9 rows Selected.

2. Create a unique listing of all jobs that are in department 50. Include the location of the Department in the output.

JOB\_ID LOCATION\_ID

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ST\_CLERK 1500

ST\_MAN 1500

3. Write a query to display the employee last name, department name, location ID, and city of all employees.

|  |  |  |  |
| --- | --- | --- | --- |
| **LAST\_NAME** | **DEPARTMENT\_NAME** | **LOCATION\_ID** | **CITY** |
| Ernst | IT | 1400 | South Lake |
| Lorence | IT | 1400 | South Lake |
| Mourgos | IT | 1400 | South Lake |
| King | Executive | 1700 | Seattle |
| Kochhar | Executive | 1700 | Seattle |
| De Haan | Executive | 1700 | Seattle |

6 rows Selected.



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4. Display the employee last name and department name for all employees who have an ‘*a’* (lowercase) in their last names.

|  |  |
| --- | --- |
| **LAST\_NAME** | **DEPARTMENT\_NAME** |
| Rajs | Shipping |
| Davies | Shipping |
| Matos | Shipping |
| Kochhar | Executive |
| De Haan | Executive |
|  |  |

5. Write a query to display the last name, job, department number, and department name for all employees who work in Toronto.

|  |  |  |  |
| --- | --- | --- | --- |
| **LAST\_NAME** | **JOB\_ID** | **DEPARTMENT\_ID** | **DEPARTMENT\_NAME** |
| Hartstein | MK\_MAN | 20 | Marketing |
| Fay | MK\_REP | 20 | Marketing |

6. Display the employee last name and employee number along with their manager’s last name and manager number. Label the columns Employee, Emp#, Manager, and Mgr#, respectively.

|  |  |  |  |
| --- | --- | --- | --- |
| **Employee** | **EMP#** | **Manager** | **Mgr#** |
| Kochhar | 101 | King | 100 |
| De Haan | 102 | King | 100 |
| Mourgos | 124 | King | 100 |
| Hartstein | 201 | King | 100 |
| Zlotkey | 149 | King | 100 |
| Whalen | 200 | Kochhar | 101 |
| Higgins | 205 | Kochhar | 101 |
| Hunold | 103 | Hunold | 103 |
| Lorence | 107 | Hunold | 103 |
| Ernst | 104 | Hunold | 103 |
| Rajs | 141 | Mourgos | 124 |
| Davies | 142 | Mourgos | 124 |
| Matos | 143 | Mourgos | 124 |
| Vargas | 144 | Mourgos | 124 |
| Abel | 174 | Zlotkey | 149 |
| Grant | 178 | Zlotkey | 149 |
| Taylor | 176 | Zlotkey | 149 |
| Fay | 202 | Hartstein | 201 |
| Gietz | 206 | Higgins | 205 |

19 rows Selected.



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7. Modify lab4\_6.sql to display all employees including King, who has no manager. Order the results by the employee number.

|  |  |  |  |
| --- | --- | --- | --- |
| **Employee** | **EMP#** | **Manager** | **Mgr#** |
| Hartstein | 201 | King | 100 |
| Zlotkey | 149 | King | 100 |
| Mourgos | 124 | King | 100 |
| De Haan | 102 | King | 100 |
| Kochhar | 101 | King | 100 |
| Higgins | 205 | Kochhar | 101 |
| Whalen | 200 | Kochhar | 101 |
| Lorence | 107 | Hunold | 103 |
| Ernst | 104 | Hunold | 103 |
| Hunold | 103 | Hunold | 103 |
| Vargas | 144 | Mourgos | 124 |
| Matos | 143 | Mourgos | 124 |
| Davies | 142 | Mourgos | 124 |
| Rajs | 141 | Mourgos | 124 |
| Grant | 178 | Zlotkey | 149 |
| Taylor | 176 | Zlotkey | 149 |
| Abel | 174 | Zlotkey | 149 |
| Fay | 202 | Hartstein | 201 |
| Gietz | 206 | Higgins | 205 |
| King | 100 |  |  |

20 rows Selected.

7. Create a query that displays employee last names, department numbers, and all the employees who work in the same department as a given employee. Give each column an appropriate label.

|  |  |  |
| --- | --- | --- |
| **DEPARTMENT** | **EMPLOYEE** | **COLLEAGUE** |
| 20 | Fay | Hartstein |
| 20 | Hartstein | Fay |
| 50 | Davies | Matos |
| 50 | Davies | Mourgos |
| 50 | Davies | Rajs |
| 50 | Davies | Vargas |
| 50 | Matos | Davies |
| 50 | Matos | Mourgos |
| 50 | Matos | Rajs |
| 50 | Matos | Vargas |
| 50 | Mourgos | Davies |
| 50 | Mourgos | Matos |
| 50 | Mourgos | Rajs |
| 50 | Mourgos | Vargas |
| 50 | Rajs | Davies |
| 50 | Rajs | Matos |
| 50 | Rajs | Mourgos |
| 50 | Rajs | Vargas |
| 50 | Vargas | Davies |
| 50 | Vargas | Matos |
| 50 | Vargas | Mourgos |
| 50 | Vargas | Rajs |
| 60 | Ernst | Hunold |
| 60 | Ernst | Lorence |
| 60 | Hunold | Ernst |
| 60 | Hunold | Lorence |
| 60 | Lorence | Ernst |
| 60 | Lorence | Hunold |
| 80 | Abel | Zlotkey |
| 80 | Zlotkey | Abel |
| 90 | De Haan | King |
| 90 | De Haan | Kochhar |
| 90 | King | De Haan |
| 90 | King | Kochhar |
| 90 | Kochhar | De Haan |
| 90 | Kochhar | King |
| 110 | Gietz | Higgins |
| 110 | Higgins | Gietz |

38 rows Selected.

9. Show the structure of the JOB\_GRADES table. Create a query that displays the name, job,department name, salary, and grade for all employees.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **LAST\_NAME** | **JOB\_ID** | **DEPARTMENT\_NAME** | **SALARY** | **GRA** |
| ------------------------- | ---------- | ------------------------------ | ---------- | --- |
| Whalen | AD\_ASST | Administration | 4400 | B |
| Fay | MK\_REP | Marketing | 6000 | C |
| Hartstein | MK\_MAN | Marketing | 13000 | D |
| Matos | ST\_CLERK | Shipping | 2600 | A |
| Vargas | ST\_CLERK | Shipping | 2500 | A |
| Mourgos | ST\_MAN | Shipping | 5800 | B |
| Davies | ST\_CLERK | Shipping | 3100 | B |
| Rajs | ST\_CLERK | Shipping | 3500 | B |
| Lorence | IT\_PROG | IT | 4200 | B |
| Hunold | IT\_PROG | IT | 9000 | C |
| Ernst | IT\_PROG | IT | 6000 | C |
| Zlotkey | SA\_MAN | Sales | 10500 | D |
| Abel | SA\_REP | Sales | 11000 | D |
| King | AD\_PRES | Executive | 24000 | E |
| De Haan | AD\_VP | Executive | 17000 | E |
|  |  |  |  |  |
| Kochhar | AD\_VP | Executive | 17000 | E |
| Gietz | AC\_ACCOUNT | Accounting | 8300 | C |
| Higgins | AC\_MGR | Accounting | 12000 | D |

18 rows Selected.

10. Create a query to display the name and hire date of any employee hired after employee Davies.

|  |  |
| --- | --- |
| **LAST\_NAME** | **HIRE\_DATE** |
| Mourgos | 16-Nov-99 |
| Matos | 15-Mar-98 |
| Vargas | 9-Jul-98 |
| Zlotkey | 29-Jan-00 |
| Taylor | 24-Mar-98 |
| Grant | 24-May-99 |
| Fay | 17-Aug-97 |

7 rows Selected.

11. Display the names and hire dates for all employees who were hired before their managers,

along with their manager’s names and hire dates. Label the columns Employee, Emp

Hired, Manager, and Mgr Hired, respectively.

|  |  |  |  |
| --- | --- | --- | --- |
| **LAST\_NAME** | **HIRE\_DATE** | **LAST\_NAME** | **HIRE\_DATE** |
| Whalen | 17-Sep-87 | Kochhar | 12-Sep-89 |
| Rajs | 7-Feb-97 | Mourgos | 16-Nov-99 |
| Davies | 7-Feb-97 | Mourgos | 16-Nov-99 |
| Matos | 15-Mar-98 | Mourgos | 16-Nov-99 |
| Vargas | 9-Jul-98 | Mourgos | 16-Nov-99 |
| Abel | 11-May-96 | Zlotkey | 29-Jan-00 |
| Grant | 24-May-99 | Zlotkey | 29-Jan-00 |
| Taylor | 24-Mar-98 | Zlotkey | 29-Jan-00 |

8 rows Selected.

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