



ASSIGNMENT 3

Afsana Chowdhury (1731163642)

CSE311L.10

Submission Date: 15-AUG-2020

LAB report 4:

Part 1:

Activity 01:

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

CODE: *SELECT e.Last_Name, e.Department_id, d.Department_Name FROM Employees e INNER JOIN Ddepartments d WHERE e.Department_id = d.Department_id;*



;

Result Grid			
Filter Rows:			
Export:			
	Last_Name	Department_id	Department_Name
►	King	90	Executive
	Kocher	90	Executive
	De Haan	90	Executive
	Hunold	60	IT
	Ernst	60	IT
	Lorentz	60	IT
	Mourgos	50	Shipping
	Rajs	50	Shipping
	Davies	50	Shipping
	Matos	50	Shipping
	Vargas	50	Shipping
	Zlotkey	80	Sales
	Abel	80	Sales
	Taylor	80	Sales
	Whalem	10	Administration
	Hartstein	20	Marketing
	Fay	20	Marketing
	Higgins	110	Accounting
	Gietz	110	Accounting

Activity 02:

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

CODE: `SELECT e.last_name, d.department_name, d.location_id, l.city FROM employees e, departments d, locations l WHERE e.department_id = d.department_id AND d.location_id = l.location_id AND e.commission_pct IS NOT NULL;`

Result Grid				
 Filter Rows: <input type="text"/>				
Export: 				
	last_name	department_name	location_id	city
▶	Zlotkey	Sales	2500	OXford
	Abel	Sales	2500	OXford
	Taylor	Sales	2500	OXford

Part 2:

Activity 01:

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

CODE: `SELECT e.last_name, e.job_id, e.department_id, d.department_name FROM employees e JOIN departments d ON (e.department_id = d.department_id) JOIN locations l ON (d.location_id = l.location_id) WHERE LOWER(l.city) = 'toronto';`

	last_name	job_id	department_id	department_name
▶	Hartstein	MK_MAN	20	Marketing
	Fay	MK_REP	20	Marketing

Activity 02:

Display the last name, salary, and commission for all employees who earn commissions. Sort data in descending order of salary and commissions.

CODE: `SELECT Last_Name, Salary, Commission_pct FROM employees WHERE Commission_pct is not null order by Salary DESC, Commission_pct DESC;`

	Last_Name	Salary	Commission_pct
▶	Abel	11000.00	0.30
	Zlotkey	10500.00	0.20
	Taylor	8600.00	0.20
	Grant	7000.00	0.15

Activity 03:

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.

CODE: `SELECT e.last_name "Employee", e.employee_id "EMP#", m.last_name "Manager", m.employee_id "Mgr#" FROM employees e join employees m ON (e.manager_id = m.employee_id);`

Result Grid				
Filter Rows:				
	Employee	EMP #	Manager	Mgr #
▶	Kochar	101	King	100
	De Haan	102	King	100
	Hunold	103	De Haan	102
	Ernst	104	Hunold	103
	Lorentz	107	Hunold	103
	Mourgos	124	King	100
	Rajs	141	Mourgos	124
	Davies	142	Mourgos	124
	Matos	143	Mourgos	124
	Vargas	144	Mourgos	124
	Zlotkey	149	King	100
	Abel	174	Zlotkey	149
	Taylor	176	Zlotkey	149
	Grant	178	Zlotkey	149
	Whalem	200	Kochar	101
	Hartstein	201	King	100
	Fay	202	Hartstein	201
	Higgins	205	Kochar	101
	Gietz	206	Higgins	205

ASSIGNMENT- 3:

1. Write SQL statement for INSERT two Departments' data into the Department table.

Ans: *INSERT INTO Departments (data1, data2);*

2. Write a query that displays the last name , weekly salary, department number of the employees.
Name the salary column as "Weekly Salary"

Code: *SELECT Last_Name, Salary/4 as Weekly_salary, Department_id FROM Employees;*

Result Grid			
Filter Rows: <input type="text"/>			
	Last_Name	weekly_salary	Department_id
▶	King	6000.000000	90
	Kocher	4250.000000	90
	De Haan	4250.000000	90
	Hunold	2250.000000	60
	Ernst	1500.000000	60
	Lorentz	1050.000000	60
	Mourgos	1450.000000	50
	Rajs	875.000000	50
	Davies	775.000000	50
	Matos	650.000000	50
	Vargas	625.000000	50
	Zlotkey	2625.000000	80
	Abel	2750.000000	80
	Taylor	2150.000000	80
	Grant	1750.000000	NULL
	Whalem	1100.000000	10
	Hartstein	3250.000000	20
	Fay	1500.000000	20
	Higgins	3000.000000	110
	Gietz	2075.000000	110

3. Write a query that displays the last name concatenated with the job ID, separated by a comma and space, and name the column Employee and Title

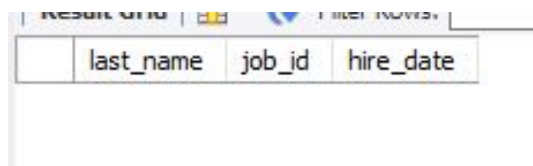
Code: `SELECT CONCAT>Last_name, ", ", Job_id) as "Employee and Title" FROM Employees;`



Employee and Title
King, AD_PRES
Kocher, AD_VP
De Haan, AD_VP
Hunold, IT_PROG
Ernst, IT_PROG
Lorentz, IT_PROG
Mourgos, ST_MAN
Rajs, ST_CLERK
Davies, ST_CLERK
Matos, ST_CLERK
Vargas, ST_CLERK
Zlotkey, SA_MAN
Abel, SA_REP
Taylor, SA_MAN
Grant, SA_MAN
Whalem, AD_ASST
Hartstein, MK_MAN
Fay, MK_REP
Higgins, AC_MGR
Gietz, AC_ACCOUNT

4. Display the employee last name, job ID, and start date of employees hired between February 20, 1998, and May 1, 1998. Order the query in ascending order by start date

Code: `SELECT Last_name, Job_id, Hire_date FROM Employees WHERE Hire_date BETWEEN "1998-02-05" AND "1998-01-05" ORDER BY Hire_date ASC;`

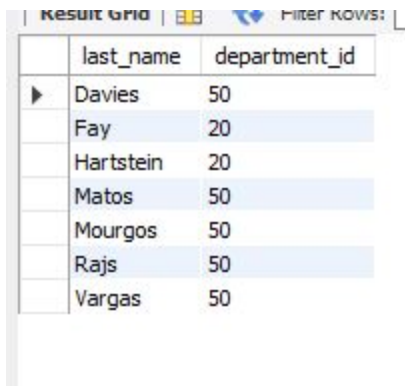


last_name	job_id	hire_date
-----------	--------	-----------

(There was no data for 1998 in the database. However, the code works for the years that are present in the database.)

5. Display the last name and department number of all employees in departments 20 and 50 in alphabetical order by name.

Code: *SELECT Last_Name, Department_Id FROM Employees WHERE Department_Id BETWEEN 20 AND 50 ORDER BY Last_Name ASC;*

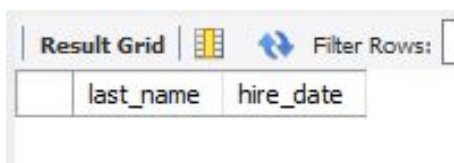


The screenshot shows a 'Result Grid' window with a 'Filter Rows' button. The grid contains two columns: 'last_name' and 'department_id'. The data is as follows:

	last_name	department_id
▶	Davies	50
	Fay	20
	Hartstein	20
	Matos	50
	Mourgos	50
	Rajs	50
	Vargas	50

6. Display the last name and hire date of every employee who was hired in 1994.

Code: *SELECT Last_Name, Hire_Date FROM Employees WHERE Hire_Date LIKE "1994%";*



The screenshot shows a 'Result Grid' window with a 'Filter Rows' button. The grid contains two columns: 'last_name' and 'hire_date'. No data is visible in the grid.

	last_name	hire_date
--	-----------	-----------

(No employee was hired in 1994. However, the code works for any different year that is present in the database.)

7. Display the last name, salary, and commission for all employees who earn commissions. Sort data in descending order of salary and commissions.

Code: `SELECT Last_Name, Salary, Commission_pct FROM employees WHERE Commission_pct IS NOT NULL ORDER BY Salary DESC, Commission_pct DESC;`

Result Grid			
Filter Rows:			
	Last_Name	Salary	Commission_pct
▶	Abel	11000.00	0.30
	Zlotkey	10500.00	0.20
	Taylor	8600.00	0.20
	Grant	7000.00	0.15

8. Display the last name of all employees who have an a and an e in their last name

Code: `SELECT Last_Name FROM Employees WHERE Last_Name LIKE "%a%" AND Last_Name LIKE "%e%";`

	Last_Name
▶	De Haan
	Davies
	Abel
	Whalem
	Hartstein

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

Code: `SELECT e.Last_Name, e.Department_Id, d.Department_Name FROM Employees e, Departments d WHERE e.Department_Id= d.Department_Id;`

	last_name	department_id	department_name
▶	King	90	Executive
	Kocher	90	Executive
	De Haan	90	Executive
	Hunold	60	IT
	Ernst	60	IT
	Lorentz	60	IT
	Mourgos	50	Shipping
	Rajs	50	Shipping
	Davies	50	Shipping
	Matos	50	Shipping
	Vargas	50	Shipping
	Zlotkey	80	Sales
	Abel	80	Sales
	Taylor	80	Sales
	Whalem	10	Administration
	Hartstein	20	Marketing
	Fay	20	Marketing
	Higgins	110	Accounting
	Gietz	110	Accounting

10. Write a query to display the employee last name, department name, location ID, and city of all employees who earn a commission

Code: `SELECT e.Last_Name, d.Department_Name, d.Location_Id, l.City FROM Employees e, Departments d, Locations l WHERE e.Department_id = d.Department_id and d.Location_id = l.Location_id AND e.Commission_pct IS NOT NULL;`

	last_name	department_name	location_id	city
▶	Zlotkey	Sales	2500	OXford
	Abel	Sales	2500	OXford
	Taylor	Sales	2500	OXford