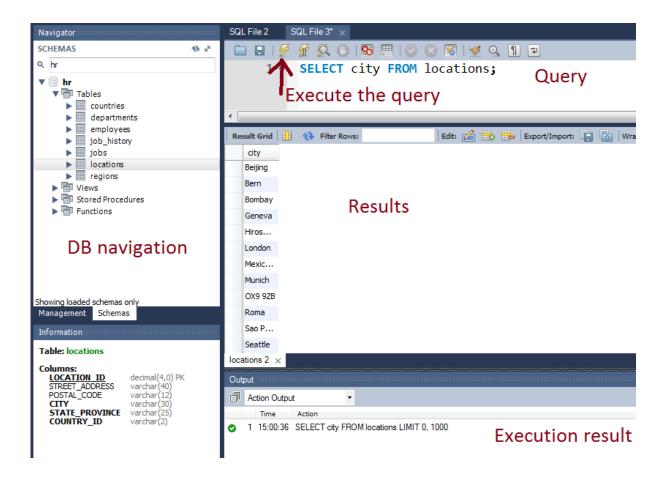




Lab 3&4 - JOINS AND SUBQUERIES 3H

Intro

Connection to the database: Click the *MySQL Workbench* icon on your desktop, then select the local connection. The database server is already installed on your virtual machine and the *humanresources* database has already been imported.





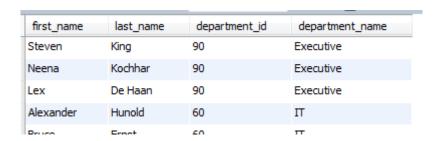


Unless specified, you must use a JOIN to solve the questions.

1. Write a query to find the addresses (location_id, street_address, city, state_province, country_name) in the database.



2. Write a query to find the names (first_name, last name), department ID and department name of all the employees. Compare results with INNER JOIN and NATURAL JOIN. Explain Why



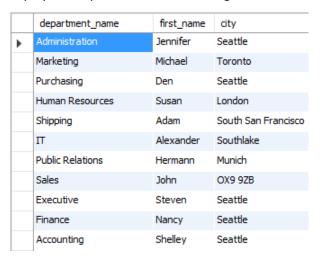
3. Display job title, employee name, and the difference between salary of the employee and minimum salary for the job





	job_title	first_name	Salary - Min_Salary
•	President	Steven	4000.00
	Administration Vice President	Neena	2000.00
	Administration Vice President	Lex	2000.00
	Administration Assistant	Jennifer	1400.00
	Finance Manager	Nancy	3800.00
	Accountant	Daniel	4800.00
	Accountant	lohn	4000 00

4. Write a query to display the department name, manager name, and city



5. Write a query (using subquery) to find the names (first_name, last_name), the salary of the employees whose salary is greater than the average salary

	first_name	last_name	salary
•	Steven	King	24000.00
	Neena	Kochhar	17000.00
	Lex	De Haan	17000.00
	Alexander	Hunold	9000.00
	Nancy	Greenberg	12000.00
	Daniel	Faviet	9000.00
	John	Chen	8200.00
	Ismael	Sciarra	7700.00
	Jose Manuel	Urman	7800.00
	Luis	Popp	6900.00
	Den	Danhaely	11000 00

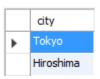
6. Write a query to find the cities that have unused offices within the company.



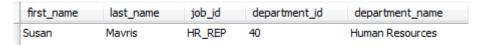




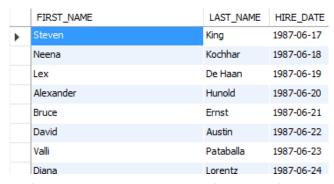
7. Same query, but restricted to cities in Japan



8. Find the names (first_name, last_name), job, department number, and department name of the employees who work in London



9. Write a query to find all the employees hired before all the employees of department « SALES »



10. Write a query to find the employee id, name (last_name) along with their manager_id, manager name (last_name)

Emp_Id	Employee	Mgr_Id	Manager
101	Kochhar	100	King
102	De Haan	100	King
103	Hunold	102	De Haan
104	Ernst	103	Hunold
105	Auetin	103	Hupold





11. In the previous query, King(ID 100) does not appear in the employee list, how to integrate him?

Emp_Id	Employee	Mgr_Id	Manager
103	Hunold	102	De Haan
175	Hutton	149	Zlotkey
179	Johnson	149	Zlotkey
195	Jones	123	Vollman
122	Kaufling	100	King
115	Khoo	114	Raphaely
100	King	NULL	NULL
156	King	146	Partners
101	Kochhar	100	King
173	Kumar	148	Cambrault
137	Ladwig	123	Vollman
127	Landry	120	Weiss

12. .Write a query to find the employees whose manager is not managing a department

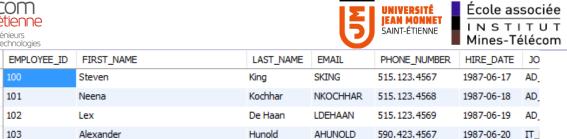
	EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMA
•	103	Alexander	Hunold	AHUN
	108	Nancy	Greenberg	NGRE
	125	Julia	Nayer	JNAY
	126	Irene	Mikkilineni	IMIKK
	127	James	Landry	JLANI
	128	Steven	Markle	SMAR
	122	lacon	Mallia	TRAKE

13. Write a query to display the name (first_name, last_name), hire date, salary of the manager for all managers whose experience is more than 15 years.

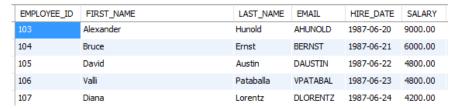
	first_name	last_name	hire_date	salary	Experience
١	Steven	King	1987-06-17	24000.00	30.0137
	Alexander	Hunold	1987-06-20	9000.00	30.0055
	Nancy	Greenberg	1987-06-25	12000.00	29.9918
	Den	Raphaely	1987-07-01	11000.00	29.9753
	Adam	Fripp	1987-07-08	8200.00	29.9562
	John	Duccell	1087-08-01	14000 00	20 8004

14. Write a query to display all people hired before « Ernst » using both join and subqueries

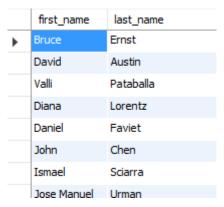




15. Write a query (using join) to find all the employees hired before « Greenberg » and who have a lower salary than him.



16. Using a subquery, write a query to find the names of employees who are not managers. Hint use the keyword EXISTS



17. Write a query to display the department ID, department name and manager first name.



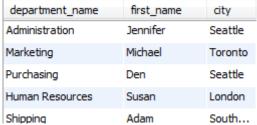
18. Write a query to find the employees who have the same job as « Ernst » but a different manager

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_D/
103	Alexander	Hunold	AHUNOLD	590.423.4567	1987-06-

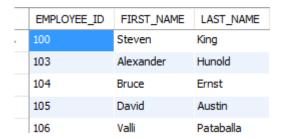
19. Write a query to display the department name, manager name, and city



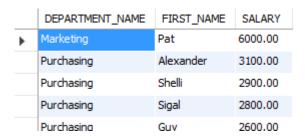




20. Write a query to find the firstname and lastname of people who have no job history



21. Write a query to get department name, manager name, and salary of the manager for all managers that are employed for more than 5 years



22. Write a query to return the cities, their country and region names where some employees earn more than 3000

