

NEW Apprenticeship SQL Presentation

Resources:

- https://github.com/mbrock76/NEW
- https://livesql.oracle.com
- https://tinyurl.com/MikeBrockSQL

Michael Brock



How can I view a tree map of all company locations?

```
select regions.region_name, countries.country_name, locations.city
from HR.regions
join HR.countries on regions.region_id = countries.region_id
join HR.locations on countries.country_id = locations.country_id;
```

REGION_NAME	COUNTRY_NAME	CITY	
Europe	Switzerland	Geneva	
Europe	Switzerland	Bern	
Europe	Germany	Munich	
Europe	Italy	Roma	
Europe	Italy	Venice	
Europe	Netherlands	Utrecht	
Europe	United Kingdom	London	
Europe	United Kingdom	Oxford	
Europe	United Kingdom	Stretford	
Americas	Brazil	Sao Paulo	
Americas	Canada	Toronto	
Americas	Canada	Whitehorse	



How can I view a tree map of employees and their department managers?

DEPT	MNGR	EMP
Accounting	Shelley Higgins	William Gietz
Executive	Steven King	Lex De Haan
Executive	Steven King	Neena Kochhar
Finance	Nancy Greenberg	Jose Manuel Urman
Finance	Nancy Greenberg	Daniel Faviet



How can I view a list of salaries for each job, and the number of employees in that role?

```
1 select distinct jobs.job_title, ((jobs.min_salary + jobs.max_salary) / 2)
2    as "avg salary", count(*) over (partition by employees.job_id) as "#Emps"
3    from HR.jobs
4    join HR.employees on jobs.job_id = employees.job_id
5    order by "avg salary" desc;
6
```

JOB_TITLE	avg salary	#Emps
President	30040	1
Administration Vice President	22500	2
Sales Manager	15040	5
Accounting Manager	12100	1
Finance Manager	12100	1



How can I view the duration employees have worked at a job?

```
select distinct jobs.job_title,

max(floor(months_between(job_history.end_date, job_history.start_date)/12))

over (partition by jobs.job_title) as "Years",

max(floor(mod(job_history.end_date - job_history.start_date, 360)/30))

over (partition by jobs.job_title) as "Months",

max(floor(mod(job_history.end_date - job_history.start_date, 30)))

over (partition by jobs.job_title) as "Days"

from HR.jobs

join HR.job_history on jobs.job_id = job_history.job_id

order by "Years" desc;
```

JOB_TITLE	Years	Months	Days
Stock Manager	14	10	14
Administration Assistant	5	10	0
Programmer	5	7	8
Public Accountant	4	6	27
Accounting Manager	3	5	4
Marketing Representative	3	10	21
Stock Clerk	1	9	17
Sales Manager	0	0	4
Sales Representative	0	9	12