

OBJECTIVES

- View
- Advanced aggregation



View ©LXD

VIEW

- A view of instructors without their salary create view faculty as
 select ID, name, dept_name
 from instructor
- Find all instructors in the Biology department

select name

from faculty

where dept_name = 'Biology'

VIEW

Create a view of department salary totals

```
create view departments_total_salary(dept_name, total_salary)
```

as

```
select dept_name, sum (salary)
from instructor
group by dept_name;
```



Advanced aggregation



ADVANCED AGGREGATION

- 对学院根据预算进行排序,并给出排名
- select dept_name, building,budget, rank() over (order by budget desc) as s rank

from department order by s_rank;

	dept_name	building	budget	s_rank
•	Physics	Wrigley	942162.76	1
	Finance	Candlestick	866831.75	2
	Psychology	Thompson	848175.04	3
	Cybernetics	Mercer	794541.46	4
	Math	Brodhead	777605.11	5
	Athletics	Bronfman	734550.70	6
	History	Taylor	699140.86	7
	Biology	Candlestick	647610.55	8
	Astronomy	Taylor	617253.94	9
	English	Palmer	611042.66	10
	Languages	Linderman	601283.60	11
	Pol. Sci.	Whitman	573745.09	12

ADVANCED AGGREGATION

 对每个建筑内的学院根据预算进行排序,并给出排名 select dept_name, building,budget, rank() over (partition by building order by budget desc) as s_rank

from department order by building, s_rank;

dept_name	building	budget	s_rank
Elec. Eng.	Main	276527.61	1
Cybernetics	Mercer	794541.46	1
English	Palmer	611042.66	1
Geology	Palmer	406557.93	2
Mech. Eng.	Rauch	520350.65	1
Accounting	Saucon	441840.92	1
History	Taylor	699140.86	1
Astronomy	Taylor	617253.94	2
Statistics	Taylor	395051.74	3
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