

- 1.1
- Create a VIEW called P14V1 for the following:
  - Access the departments and employees tables
  - Return department name, last name, first name, hire date, and monthly salary
  - Only return employees hired on or after January 1, 2008
- 1.2
- Run a query against the P14V1 view and only return employees in Home Theatre, Major Appliances, and Small Appliances. Sort last name within department name

Output:

DEPARTMENT_NAME	LAST_NAME	FIRST_NAME	HIRE_DATE	MONTHLY_SALARY
Home Theatre	Bernard	Dave	2010-07-24	6000.00
Major Appliances	Henry	Robert	2009-05-25	3700.00
Major Appliances	James	Lisa	2008-02-15	6500.00
Major Appliances	Johnson	Linda	2010-08-10	2400.00
Major Appliances	Richie	Anne	2010-11-28	4000.00
Small Appliances	Best	Jim	2010-10-22	2400.00

- 1.3
- Create a SQL statement that accesses the base tables directly (does not use the view) and returns the same result set as 1.2

Output:

DEPARTMENT_NAME	LAST_NAME	FIRST_NAME	HIRE_DATE	MONTHLY_SALARY
Home Theatre	Bernard	Dave	2010-07-24	6000.00
Major Appliances	Henry	Robert	2009-05-25	3700.00
Major Appliances	James	Lisa	2008-02-15	6500.00
Major Appliances	Johnson	Linda	2010-08-10	2400.00
Major Appliances	Richie	Anne	2010-11-28	4000.00
Small Appliances	Best	Jim	2010-10-22	2400.00

2.1 Create a VIEW called P14V2 for the following:

- Join the employees and jobs tables
- Return first name, last name, hire date, job id, job title, yearly salary (monthly salary \* 12), and maximum salary (for their job)
- Limit the query to those employees who are in jobs with a maximum salary > 50,000

2.2 Run a query against the P14V2 view. Sort by last name.

Output:

FIRST_NAME	LAST_NAME	HIRE_DATE	JOB_CODE	JOB_TITLE	YEARLY_SALARY	MAX_SALARY
Lauren	Alexander	2007-05-20	DT_MGR	Department Manager	54000.00	133000.00
Bob	Allan	2008-02-13	IT_DEV	Software Developer	28800.00	90000.00
Dave	Bernard	2010-07-24	DT_MGR	Department Manager	72000.00	133000.00
Sandy	Black	2000-07-18	DT_MGR	Department Manager	92400.00	133000.00
Steve	Carr	2007-07-29	DT_MGR	Department Manager	66000.00	133000.00
Lisa	James	2008-02-15	DT_MGR	Department Manager	78000.00	133000.00
Scott	Long	2009-08-17	AD_TRN	Trainer	42000.00	52000.00
Terry	Manis	2000-05-20	DT_MGR	Department Manager	132000.00	133000.00
Paula	Morris	2006-11-24	IT_DEV	Software Developer	27000.00	90000.00
Rick	Peters	2013-03-15	IT_DEV	Software Developer	34500.00	90000.00
Greg	Zimmerman	2007-04-19	IT_DEV	Software Developer	37800.00	90000.00

2.3 Run a query against the P14V2 view

- Return employee name, maximum salary for job, employee's yearly salary, and the difference between the maximum salary and yearly salary.
- Only return employees with a job title of "Department Manager."
- Format salary values as shown
- Sort by the salary difference descending

Output:

EMPLOYEE_NAME	MAX_SALARY	YEARLY_SALARY	SALARY_DIFFERENCE
Lauren Alexander	133,000.00	54,000.00	79,000.00
Steve Carr	133,000.00	66,000.00	67,000.00
Dave Bernard	133,000.00	72,000.00	61,000.00
Lisa James	133,000.00	78,000.00	55,000.00
Sandy Black	133,000.00	92,400.00	40,600.00
Terry Manis	133,000.00	132,000.00	1,000.00

3.1 Create a VIEW called P14V3 that returns last name, first name, department name, and employee's manager id for all employees including those employees not assigned to a department

3.2 Run a query against P14V3 as shown. Sort by last name.

Output:

NAME	DEPARTMENT	MANAGER
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Trish Albert	Video Games	113
Lauren Alexander	Training	---
Bob Allan	Information Technology	114
Dave Bernard	Home Theatre	111
Jim Best	Small Appliances	---
Sandy Black	Accounting	104
Steve Carr	Video Games	112
Sharron Evans	Major Appliances	114
Barb Gibbens	Not assigned	115
Janice Harper	Home Theatre	112
Robert Henry	Major Appliances	111
Janis Hill	Video Games	104
Marg Horner	Major Appliances	111
Lisa James	Major Appliances	110
Linda Johnson	Major Appliances	114
William Johnson	Not assigned	110
Jake Lee	Video Games	113
Scott Long	Training	113
Terry Manis	Administration	---
Troy Mansion	Small Appliances	107
Terry Maxwell	Home Theatre	112
Sue McDonald	Not assigned	110
Paula Morris	Information Technology	---
Dave Nisbet	Not assigned	110
Rick Peters	Information Technology	110
Anne Richie	Major Appliances	111
Jim Smith	Home Theatre	105
Jane White	Major Appliances	106
Greg Zimmerman	Information Technology	115

4.1 It is company policy that only upper-level management be allowed access to individual employee salaries. The department managers, however, need to know the minimum, maximum, and average salaries, grouped by department.

- Join the departments and employees tables to create a view called P14V4 that returns the information for department managers.
- Return all departments even if they do not have any employees. Sort by department name.
- Change the column names in the P14V4 view to dept\_name, min\_salary, max\_salary, avg\_monthly\_salary.

4.2 Run a query over the P14V4 view.

- Return all data
- Sort by department name

Output:

DEPT_NAME	MIN_SALARY	MAX_SALARY	AVG_MONTHLY_SALARY
Accounting	7700.00	7700.00	7700.00
Administration	11000.00	11000.00	11000.00
Cameras	[NULL]	[NULL]	[NULL]
Home Theatre	2200.00	6000.85	4275.21
Information Technology	2250.00	3150.00	2668.75
Major Appliances	2400.00	6500.00	4071.42
Marketing	[NULL]	[NULL]	[NULL]
Office Products	[NULL]	[NULL]	[NULL]
Small Appliances	2400.00	3200.65	2800.32
Training	3500.00	4500.00	4000.00
Video Games	1800.00	6585.45	4596.36

4.3 Run a query over the P14V4 view.

- Return only the department name and average monthly salary
- Do not include departments that have a NULL average monthly salary
- Output salary values as shown
- Sort by department name

Output:

DEPT_NAME	AVG_MONTHLY_SALARY
Accounting	7,700.00
Administration	11,000.00
Home Theatre	4,275.21
Information Technology	2,668.75
Major Appliances	4,071.42
Small Appliances	2,800.32
Training	4,000.00
Video Games	4,596.36

5.1 Using the B\_ database, create a view called P14V5.

- Include the column shown below

5.2 Run a query over the P14V5 view

- Return the report below
- Sort product code within order date within customer name

Output:							
CUSTOMER_NAME	ORDER_DATE	ORDER_ID	PRODUCT_CODE	QUANTITY	PRICE_PAID	DESCRIPTION	
Best Digital Products	2020-09-14	1001	AT94	2	165.00	Iron	
Best Digital Products	2020-09-14	1001	CD52	2	349.95	Microwave Oven	
Best Digital Products	2020-09-14	1001	KL62	1	495.00	Dryer	
Best Digital Products	2020-10-20	1005	KL62	4	329.95	Dryer	
Best Digital Products	2020-11-16	1009	KV29	2	1290.00	Treadmill	
Everything Electronics	2020-09-13	1000	CD52	2	165.00	Microwave Oven	
Everything Electronics	2020-09-13	1000	DR93	1	495.00	Black Gas-Range	
Everything Electronics	2020-09-13	1000	DW11	3	399.99	Washer	
Everything Electronics	2020-09-13	1000	KL62	2	349.95	Dryer	
Everything Electronics	2020-10-18	1004	DR93	1	495.00	Black Gas-Range	
Everything Electronics	2020-10-18	1004	DW11	1	399.99	Washer	
Everything Electronics	2020-11-15	1007	BV06	2	794.95	Home Gym	
Everything Electronics	2020-11-15	1007	CD52	4	150.00	Microwave Oven	
Worldwide Digital Inc	2020-09-15	1002	KT03	1	495.00	Dishwasher	
Worldwide Digital Inc	2020-09-15	1002	KV29	2	165.00	Treadmill	
Worldwide Digital Inc	2020-10-17	1003	AT94	11	21.95	Iron	
Worldwide Digital Inc	2020-10-17	1003	KT03	1	495.00	Dishwasher	
Worldwide Digital Inc	2020-11-14	1006	KT03	2	595.00	Dishwasher	
Worldwide Digital Inc	2020-11-16	1008	DR93	1	495.00	Black Gas-Range	