

1. Join the B_EMPLOYEES and B_DEPARTMENTS tables. Display employee ID, last name, department name, and hire date for those employees hired in 2010.

EMPLOYEE_ID	LAST_NAME	DEPARTMENT_NAME	HIRE_DATE
-----	-----	-----	-----
112	Bernard	Home Theatre	2010-07-24
115	Best	Small Appliances	2010-10-22

2. Join the B_EMPLOYEES (left table) and B_DEPARTMENTS (right table) tables. Use a RIGHT OUTER JOIN to return the department code, department name, first name, and last name for all departments including those departments that do not have employees assigned. Display dashes in name columns for department with no employees. Sort by department code.

DEPARTMENT_CODE	DEPARTMENT_NAME	FIRST_NAME	LAST_NAME
AC	Accounting	Sandy	Black
AD	Administration	Terry	Manis
CA	Cameras	-----	-----
HT	Home Theatre	Jim	Smith
HT	Home Theatre	Dave	Bernard
HT	Home Theatre	Terry	Maxwell
HT	Home Theatre	Janice	Harper
IT	Information Technology	Greg	Zimmerman
IT	Information Technology	Bob	Allan
IT	Information Technology	Paula	Morris
IT	Information Technology	Rick	Peters
MA	Major Appliances	Jane	White
MA	Major Appliances	Lisa	James
MA	Major Appliances	Marg	Horner
MA	Major Appliances	Anne	Richie
MA	Major Appliances	Linda	Johnson
MA	Major Appliances	Sharron	Evans
MA	Major Appliances	Robert	Henry
MK	Marketing	-----	-----
OP	Office Products	-----	-----
SA	Small Appliances	Troy	Mansion
SA	Small Appliances	Jim	Best
TR	Training	Lauren	Alexander
TR	Training	Scott	Long
VG	Video Games	Janis	Hill
VG	Video Games	Steve	Carr
VG	Video Games	Trish	Albert
VG	Video Games	Jake	Lee

3. Join the B_EMPLOYEES (left table) and B_DEPARTMENTS (right table) tables. Use a LEFT OUTER JOIN to return the last name, first name, and department name for all employees including those employees not assigned to a department. Sort by last name. Note: Do not use column or alias names.

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

4. Join b_department with b_employees. Return department name and manager name for those department that have a manager.

DEPARTMENT_NAME	MANAGER
Administration	Terry Manis
Accounting	Sandy Black
Training	Lauren Alexander
Major Appliances	Lisa James
Video Games	Steve Carr
Home Theatre	Dave Bernard

5. Join b_employees with b_jobs. Return only the rows where maximum salary > 50000. Sort by maximum salary descending.

FIRST_NAME	LAST_NAME	HIRE_DATE	JOB_CODE	JOB_TITLE	MAX_SALARY
Greg	Zimmerman	2021-11-18	IT_DEV	Software Developer	90000
Bob	Allan	2021-11-18	IT_DEV	Software Developer	90000
Paula	Morris	2021-11-18	IT_DEV	Software Developer	90000
Rick	Peters	2021-11-18	IT_DEV	Software Developer	90000
Terry	Manis	2000-05-20	DT_MGR	Department Manager	52000
Sandy	Black	2000-07-18	DT_MGR	Department Manager	52000
Lauren	Alexander	2007-05-20	DT_MGR	Department Manager	52000
Lisa	James	2008-02-15	DT_MGR	Department Manager	52000
Dave	Bernard	2010-07-24	DT_MGR	Department Manager	52000
Steve	Carr	2007-07-29	DT_MGR	Department Manager	52000
Scott	Long	2009-08-17	AD_TRN	Trainer	52000

6. Display the following report. Only return employees in departments Video Games and Information Technology. Sort by last name within department name.

DEPARTMENT_NAME	EMPLOYEE	JOB_TITLE
-----+	-----+	-----+
Information Technology	Bob Allan	Software Developer
Information Technology	Paula Morris	Software Developer
Information Technology	Rick Peters	Software Developer
Information Technology	Greg Zimmerman	Software Developer
Video Games	Trish Albert	Sales Associate
Video Games	Steve Carr	Department Manager
Video Games	Janis Hill	Sales Associate
Video Games	Jake Lee	Sales Associate

7. Display the following report. Only return departments with an average yearly salary greater than 50000. Sort average yearly salary descending.

DEPT_CODE	DEPARTMENT_NAME	AVERAGE_YEARLY_SALARY
-----+	-----+	-----+
AD	Administration	132,000.00
AC	Accounting	92,400.00
VG	Video Games	55,156.35
HT	Home Theatre	51,302.55

8. Display the following report. Sort by department code.

DEPT_CODE	DEPARTMENT_NAME	MANAGER	FIRST_NAME	LAST_NAME
AC	Accounting	105	Sandy	Black
AD	Administration	104	Terry	Manis
CA	Cameras	Not assigned	-----	-----
HT	Home Theatre	112	Dave	Bernard
IT	Information Technology	Not assigned	-----	-----
MA	Major Appliances	111	Lisa	James
MK	Marketing	Not assigned	-----	-----
OP	Office Products	Not assigned	-----	-----
SA	Small Appliances	Not assigned	-----	-----
TR	Training	110	Lauren	Alexander
VG	Video Games	113	Steve	Carr

9. This report requires joining four tables. Sort product code within category name within warehouse id within warehouse city.

CITY	WAREHOUSE_ID	CATEGORY_NAME	PRODUCT_CODE	DESCRIPTION	QOH
Detroit	3	Hardware	DL71	Cordless Drill	41
Detroit	3	Large Appliances	DR93	Black Gas-Range	21
Detroit	3	Large Appliances	DW11	Washer	42
Detroit	3	Small Appliances	CD52	Microwave Oven	11
Detroit	3	Sporting Goods	BV06	Home Gym	34
Miami	1	Hardware	DL71	Cordless Drill	11
Miami	1	Large Appliances	DR93	Black Gas-Range	31
Miami	1	Large Appliances	DW11	Washer	12
Miami	1	Small Appliances	AT94	Iron	43
Miami	1	Small Appliances	CD52	Microwave Oven	21
Miami	1	Sporting Goods	BV06	Home Gym	24
Miami	2	Large Appliances	KL62	Dryer	34
Miami	2	Large Appliances	KT03	Dishwasher	23
Miami	2	Small Appliances	AT94	Iron	43
Miami	2	Small Appliances	FD21	Stand Mixer	12
Miami	2	Sporting Goods	KV29	Treadmill	25
Toronto	4	Large Appliances	KL62	Dryer	14
Toronto	4	Large Appliances	KT03	Dishwasher	53
Toronto	4	Small Appliances	FD21	Stand Mixer	52
Toronto	4	Sporting Goods	KV29	Treadmill	35