Lab Assignment No-03

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Class: TE-Comps B	Batch: B3
Date of Experiment: 28/07/2020	Date of Submission: 24/11/2020
Grade :	

1. Write a query to display the last_name and department_name of all the employees. (use equal join)

```
1  SELECT E.LAST_NAME, D.DEPARTMENT_NAME
2  from EMPLOYEES E, DEPARTMENTS D
3  WHERE E.DEPARTMENT_ID = D.DEPARTMENT_ID;
```

LAST_NAME	DEPARTMENT_NAME
king	Executive
Kochhar	Executive
De Haan	Executive
Hunold	IT
Ernst	IT
Lorentz	IT
Mourgos	Shipping
Rajs	Shipping
Davies	Shipping
Matos	Shipping
Vargas	Shipping
Zlotkey	Sales
Abel	Sales
Taylor	Sales
Whalen	Administration
Hartstein	Marketing
Fay	Marketing
Higgins	Accounting
Gietz	Accounting

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19 rows selected.

2. Write a query to perform a CROSS JOIN of the tables EMPLOYEES and DEPARTMENTS

```
1  SELECT EMPLOYEE_ID, E.DEPARTMENT_ID, D.DEPARTMENT_NAME
2  FROM EMPLOYEES E CROSS JOIN DEPARTMENTS D;
```

EMPLOYEE_ID	DEPARTMENT_ID	DEPARTMENT_NAME
100	90	Marketing
101	90	Marketing
102	90	Marketing
103	60	Marketing
104	60	Marketing
107	60	Marketing
124	50	Marketing
141	50	Marketing
142	50	Marketing
143	50	Marketing
144	50	Marketing
149	80	Marketing
174	80	Marketing
176	80	Marketing
178	-	Marketing
200	10	Marketing
201	20	Marketing
202	20	Marketing
205	110	Marketing
206	110	Marketing
100	90	Administration
101	90	Administration
102	90	Administration
103	60	Administration

```
1  SELECT EMPLOYEE_ID, E.DEPARTMENT_ID, D.DEPARTMENT_NAME
2  FROM EMPLOYEES E CROSS JOIN DEPARTMENTS D;
```

100	90	Administration
101	90	Administration
102	90	Administration
103	60	Administration
104	60	Administration
107	60	Administration
124	50	Administration
141	50	Administration
142	50	Administration
143	50	Administration
144	50	Administration
149	80	Administration
174	80	Administration
176	80	Administration
178	-	Administration
200	10	Administration
201	20	Administration
202	20	Administration
205	110	Administration
206	110	Administration
100	90	Shipping
101	90	Shipping
102	90	Shipping
103	60	Shipping
104	60	Shipping
107	60	Shipping
124	50	Shipping
141	50	Shipping
142	50	Shipping
143	50	Shipping

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Rows 1 - 50. More rows exist.

3. Create a unique listing of all job_id's that are in department 80. Include the City of the department in the output. (use natural Join)

```
1  SELECT DISTINCT JOB_ID, DEPARTMENT_ID, CITY
2  FROM EMPLOYEES NATURAL JOIN DEPARTMENTS NATURAL JOIN LOCATIONS
3  WHERE DEPARTMENT_ID = 80;
```

JOB_ID	DEPARTMENT_ID	CITY
SA_REP	80	Oxford

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4. Write a query to perform a LEFT OUTER Join on the tables EMPLOYEES and DEPARTMENTS

```
1  SELECT E.EMPLOYEE_ID, E.DEPARTMENT_ID, D.DEPARTMENT_NAME, D.MANAGER_ID
2  FROM EMPLOYEES E LEFT OUTER JOIN DEPARTMENTS D
3  ON (E.DEPARTMENT_ID = D.DEPARTMENT_ID);
```

EMPLOYEE_ID	DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID
201	20	Marketing	201
202	20	Marketing	201
200	10	Administration	200
124	50	Shipping	124
141	50	Shipping	124
142	50	Shipping	124
143	50	Shipping	124
144	50	Shipping	124
103	60	IT	103
104	60	IT	103
107	60	IT	103
149	80	Sales	149
174	80	Sales	149
176	80	Sales	149
100	90	Executive	100
101	90	Executive	100
102	90	Executive	100
205	110	Accounting	205
206	110	Accounting	205
178	-	-	-

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20 rows selected.

5. Write a query to perform a RIGHT OUTER Join on the tables EMPLOYEES and DEPARTMENTS

```
1  SELECT E.EMPLOYEE_ID, E.DEPARTMENT_ID, D.DEPARTMENT_NAME, D.MANAGER_ID
2  FROM EMPLOYEES E RIGHT OUTER JOIN DEPARTMENTS D
3  ON (E.DEPARTMENT_ID = D.DEPARTMENT_ID);
```

EMPLOYEE_ID	DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID
100	90	Executive	100
101	90	Executive	100
102	90	Executive	100
103	60	IT	103
104	60	IT	103
107	60	IT	103
124	50	Shipping	124
141	50	Shipping	124
142	50	Shipping	124
143	50	Shipping	124
144	50	Shipping	124
149	80	Sales	149
174	80	Sales	149
176	80	Sales	149
200	10	Administration	200
201	20	Marketing	201
202	20	Marketing	201
205	110	Accounting	205
206	110	Accounting	205
-	-	Contracting	-

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20 rows selected.

6. Write a query to perform a FULL OUTER Join on the tables EMPLOYEES and DEPARTMENTS

```
1  SELECT E.EMPLOYEE_ID, E.DEPARTMENT_ID, D.DEPARTMENT_NAME, D.MANAGER_ID
2  FROM EMPLOYEES E FULL OUTER JOIN DEPARTMENTS D
3  ON (E.DEPARTMENT ID = D.DEPARTMENT ID);
```

EMPLOYEE_ID	DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID
100	90	Executive	100
101	90	Executive	100
102	90	Executive	100
103	60	IT	103
104	60	IT	103
107	60	IT	103
124	50	Shipping	124
141	50	Shipping	124
142	50	Shipping	124
143	50	Shipping	124
144	50	Shipping	124
149	80	Sales	149
174	80	Sales	149
176	80	Sales	149
178	-	-	-
200	10	Administration	200
201	20	Marketing	201
202	20	Marketing	201
205	110	Accounting	205
206	110	Accounting	205
-	-	Contracting	-

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21 rows selected.