

Lab - 6

SQL query based on Subqueries

1. Write a query to display the name (first name and last name) for those employees who gets more salary than the employee whose ID is 163.

QUERY

```
SELECT first_name, last_name
FROM employees
WHERE salary > (SELECT salary
                FROM employees
                WHERE employee_id = 163)
```

OUTPUT

FIRST_NAME	LAST_NAME
Steven	King
Neena	Kochhar
Lex	De Haan
Nancy	Greenberg
Den	Raphaely

2. Write a query to display the name (first name and last name), salary, department id, job id for those employees who works in the same designation as the employee works whose id is 169.

QUERY

```
SELECT first_name, last_name, salary, department_id, job_id
FROM employees
WHERE job_id = (
    SELECT job_id
    FROM employees
    WHERE employee_id = 169)
```

OUTPUT

FIRST_NAME	LAST_NAME	SALARY	DEPARTMENT_ID	JOB_ID
Peter	Tucker	10000	80	SA_REP
David	Bernstein	9500	80	SA_REP
Peter	Hall	9000	80	SA_REP
Christopher	Olsen	8000	80	SA_REP
Nanette	Cambrault	7500	80	SA_REP
Oliver	Tuvault	7000	80	SA_REP
Janette	King	10000	80	SA_REP

3. Write a query to display the name (first name and last name), salary, department id for those employees who earn such amount of salary which is the smallest salary of any of the departments

QUERY SELECT first_name, last_name, salary, department_id
FROM employees
WHERE salary IN (SELECT MIN(salary)
FROM employees
GROUP BY department_id)

OUTPUT

FIRST_NAME	LAST_NAME	SALARY	DEPARTMENT_ID
Luis	Popp	6900	100
Randall	Perkins	2500	50
Martha	Sullivan	2500	50
Peter	Vargas	2500	50
Joshua	Patel	2500	50
James	Marlow	2500	50
Karen	Colmenares	2500	30

4. Write a query to display the employee id, employee name (first name and last name) for all employees who earn more than the average salary.

QUERY SELECT employee_id, first_name, last_name
FROM employees
WHERE salary > (SELECT AVG(NVL(salary,0))
FROM employees)

OUTPUT

EMPLOYEE_ID	FIRST_NAME	LAST_NAME
100	Steven	King
101	Neena	Kochhar
102	Lex	De Haan
103	Alexander	Hunold
108	Nancy	Greenberg
109	Daniel	Faviet
110	John	Chen

5. Write a query to display the employee's name (first name and last name), employee id and salary of all employees who report to Payam.

QUERY

```
SELECT employee_id, first_name, last_name, salary
FROM employees
WHERE manager_id = (SELECT employee_id
                    FROM employees
                    WHERE first_name = 'Payam')
```

OUTPUT

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	SALARY
133	Jason	Mallin	3300
134	Michael	Rogers	2900
135	Ki	Gee	2400
136	Hazel	Philtanker	2200
188	Kelly	Chung	3800
189	Jennifer	Dilly	3600
190	Timothy	Gates	2900

6. Write a query to display the department number, name (first name and last name), job and department name for all employees in the Finance department

QUERY

```
SELECT employee_id, first_name, last_name, department_name
FROM employees e
JOIN departments d
ON e.department_id = d.department_id
AND e.department_id = (SELECT department_id
                      FROM departments
                      WHERE department_name = 'Finance')
```

OUTPUT

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	DEPARTMENT_NAME
108	Nancy	Greenberg	Finance
109	Daniel	Faviet	Finance
110	John	Chen	Finance
111	Ismael	Sciarra	Finance
112	Jose Manuel	Urman	Finance
113	Luis	Popp	Finance

7. Write a query to display all the information of an employee whose salary and reporting person id is 3000 and 121 respectively

QUERY

```
SELECT *
FROM employees
WHERE manager_id = 121 AND salary = 3000
```

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
187	Anthony	Cabrio	ACABRIO	650.509.4876	07-FEB-99	SH_CLERK	3000	-	121	50

1 rows returned in 0.14 seconds

[CSV Export](#)

8. Display all the information of an employee whose id is any of the number 134, 159 and 183.

QUERY

```
SELECT *
FROM employees
WHERE employee_id IN (134, 159, 183)
```

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
134	Michael	Rogers	MROGERS	650.127.1834	26-AUG-98	ST_CLERK	2900	-	122	50
159	Lindsey	Smith	LSMITH	011.44.1345.729268	10-MAR-97	SA_REP	8000	.3	146	80
183	Girard	Geoni	GGEONI	650.507.9879	03-FEB-00	SH_CLERK	2800	-	120	50

3 rows returned in 0.10 seconds [CSV Export](#)

9. Write a query to display all the information of the employees whose salary is within the range 1000 and 3000.

QUERY

```
SELECT *
FROM employees
WHERE salary BETWEEN 1000 AND 3000
```

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
116	Shelli	Baida	SBAIDA	515.127.4563	24-DEC-97	PU_CLERK	2900	-	114	30
117	Sigal	Tobias	STOBIAS	515.127.4564	24-JUL-97	PU_CLERK	2800	-	114	30
118	Guy	Himuro	GHIMURO	515.127.4565	15-NOV-98	PU_CLERK	2600	-	114	30
119	Karen	Colmenares	KCOLMENEA	515.127.4566	10-AUG-99	PU_CLERK	2500	-	114	30
126	Irene	Mikkilineni	IMIKKILI	650.124.1224	28-SEP-98	ST_CLERK	2700	-	120	50
127	James	Landry	JLANDRY	650.124.1334	14-JAN-99	ST_CLERK	2400	-	120	50
128	Steven	Markle	SMARKLE	650.124.1434	08-MAR-00	ST_CLERK	2200	-	120	50
130	Mozhe	Atkinson	MATKINSO	650.124.6234	30-OCT-97	ST_CLERK	2800	-	121	50

10. Write a query to display all the information of the employees whose salary is within the range of smallest salary and 2500.

QUERY

```
SELECT *
FROM employees
WHERE salary BETWEEN (SELECT MIN(salary)
FROM employees)
AND 2500
```

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
119	Karen	Colmenares	KCOLMENEA	515.127.4566	10-AUG-99	PU_CLERK	2500	-	114	30
127	James	Landry	JLANDRY	650.124.1334	14-JAN-99	ST_CLERK	2400	-	120	50
128	Steven	Markle	SMARKLE	650.124.1434	08-MAR-00	ST_CLERK	2200	-	120	50
131	James	Marlow	JAMRLOW	650.124.7234	16-FEB-97	ST_CLERK	2500	-	121	50
132	TJ	Olson	TJOLSON	650.124.8234	10-APR-99	ST_CLERK	2100	-	121	50
135	Ki	Gee	KGEE	650.127.1734	12-DEC-99	ST_CLERK	2400	-	122	50
136	Hazel	Philtanker	HPHILTAN	650.127.1634	06-FEB-00	ST_CLERK	2200	-	122	50
140	Joshua	Patel	JPATEL	650.121.1834	06-APR-98	ST_CLERK	2500	-	123	50
144	Peter	Vargas	PVARGAS	650.121.2004	09-JUL-98	ST_CLERK	2500	-	124	50
182	Martha	Sullivan	MSULLIVA	650.507.9878	21-JUN-99	SH_CLERK	2500	-	120	50