

Instructions:

1. Please use SCOTT schema to complete this homework.
2. For question 1 to 10, please use the Figure-1 for reference.

Figure-1:

EMP									DEPT		
EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO		DEPTNO	DNAME	LOC
7369	SMITH	CLERK	7902	12/17/1980	800		20		10	ACCOUNTING	NEW YORK
7499	ALLEN	SALESMAN	7698	2/20/1981	1600	300	30		20	RESEARCH	DALLAS
7521	WARD	SALESMAN	7698	2/22/1981	1250	500	30		30	SALES	CHICAGO
7566	JONES	MANAGER	7839	4/2/1981	2975		20		40	OPERATIONS	BOSTON
7654	MARTIN	SALESMAN	7698	9/28/1981	1250	1400	30				
7698	BLAKE	MANAGER	7839	5/1/1981	2850		30				
7782	CLARK	MANAGER	7839	6/9/1981	2450		10				
7788	SCOTT	ANALYST	7566	4/19/1987	3000		20				
7839	KING	PRESIDENT		11/17/1981	5000		10				
7844	TURNER	SALESMAN	7698	9/8/1981	1500	0	30				
7876	ADAMS	CLERK	7788	5/23/1987	1100		20				
7900	JAMES	CLERK	7698	12/3/1981	950		30				
7902	FORD	ANALYST	7566	12/3/1981	3000		20				
7934	MILLER	CLERK	7782	1/23/1982	1300		10				

1.

<p>Question without Subquery [use EMP] Display the minimum Salary from EMP table.</p> <p>For example:</p> <pre> MIN(SAL) ----- 800 </pre>	<p>Display the name(s) of employee(s) who are making the minimum question with Subquery [use EMP] salary (use EMP table).</p> <p>For example:</p> <pre> ENAME SAL ----- SMITH 800 </pre>
<p>Write your query here: SQL> select min (sal) from emp;</p> <pre> MIN(SAL) ----- 950 </pre>	<p>Write your query here:</p> <pre> SQL> select ename, sal from emp where sal=950; 2 3 4 5 ENAME SAL ----- JAMES 950 </pre>

--	--

2.

<p>Question without Subquery [use EMP] Display the Average Salary. Give a suitable heading and \$ figure with rounded to 2 decimals.</p> <p>For example:</p> <div style="border: 1px solid gray; padding: 5px; width: fit-content; margin: 10px auto;"> <p style="text-align: center;">Average Salary</p> <hr style="border-top: 1px dashed black;"/> <p style="text-align: center;">2073.21</p> </div>	<p>Question with Subquery [use EMP] Display empno, ename, sal, job, deptno for all employees who are making more than Average Salary Use \$ for SAL with rounded to 2 decimals.</p> <p>For example:</p> <div style="border: 1px solid gray; padding: 5px; width: fit-content; margin: 10px auto;"> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">EMPNO</th> <th style="text-align: left;">ENAME</th> <th style="text-align: left;">SAL</th> <th style="text-align: left;">JOB</th> <th style="text-align: left;">DEPTNO</th> </tr> </thead> <tbody> <tr><td>7566</td><td>JONES</td><td>\$29,75.00</td><td>MANAGER</td><td>20</td></tr> <tr><td>7698</td><td>BLAKE</td><td>\$28,50.00</td><td>MANAGER</td><td>30</td></tr> <tr><td>7782</td><td>CLARK</td><td>\$24,50.00</td><td>MANAGER</td><td>10</td></tr> <tr><td>7788</td><td>SCOTT</td><td>\$30,00.00</td><td>ANALYST</td><td>20</td></tr> <tr><td>7839</td><td>KING</td><td>\$50,00.00</td><td>PRESIDENT</td><td>10</td></tr> <tr><td>7902</td><td>FORD</td><td>\$30,00.00</td><td>ANALYST</td><td>20</td></tr> </tbody> </table> </div>	EMPNO	ENAME	SAL	JOB	DEPTNO	7566	JONES	\$29,75.00	MANAGER	20	7698	BLAKE	\$28,50.00	MANAGER	30	7782	CLARK	\$24,50.00	MANAGER	10	7788	SCOTT	\$30,00.00	ANALYST	20	7839	KING	\$50,00.00	PRESIDENT	10	7902	FORD	\$30,00.00	ANALYST	20
EMPNO	ENAME	SAL	JOB	DEPTNO																																
7566	JONES	\$29,75.00	MANAGER	20																																
7698	BLAKE	\$28,50.00	MANAGER	30																																
7782	CLARK	\$24,50.00	MANAGER	10																																
7788	SCOTT	\$30,00.00	ANALYST	20																																
7839	KING	\$50,00.00	PRESIDENT	10																																
7902	FORD	\$30,00.00	ANALYST	20																																
<p>Write your query here: col SAL for 999,999.99 Select round(SAL,2) as "SAL" from emp;</p>	<p>Write your query here: col sal format \$ 999.999,99 Select Empno, ename,sal,job,deptno from emp where round(SAL,2) as "SAL";</p>																																			

3.

<p>Question without Subquery [use DEPT] Display the department number of SALES</p> <p>For example:</p>	<p>Question with Subquery [use EMP, DEPT] Display Empno, ename, sal, job, deptno of all employees who are working in SALES department.</p> <p>Use \$ for SAL with rounded to 2 decimals.</p> <p>For example:</p>
---	---

<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td style="text-align: center;">DEPTNO</td></tr> <tr><td style="text-align: center;">-----</td></tr> <tr><td style="text-align: center;">30</td></tr> </table>	DEPTNO	-----	30	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: left;">EMPNO</th> <th style="text-align: left;">ENAME</th> <th style="text-align: right;">SAL</th> <th style="text-align: left;">JOB</th> <th style="text-align: right;">DEPTNO</th> </tr> <tr> <th colspan="5" style="text-align: center;">-----</th> </tr> </thead> <tbody> <tr><td>7499</td><td>ALLEN</td><td style="text-align: right;">\$16,00.00</td><td>SALESMAN</td><td style="text-align: right;">30</td></tr> <tr><td>7521</td><td>WARD</td><td style="text-align: right;">\$12,50.00</td><td>SALESMAN</td><td style="text-align: right;">30</td></tr> <tr><td>7654</td><td>MARTIN</td><td style="text-align: right;">\$12,50.00</td><td>SALESMAN</td><td style="text-align: right;">30</td></tr> <tr><td>7698</td><td>BLAKE</td><td style="text-align: right;">\$28,50.00</td><td>MANAGER</td><td style="text-align: right;">30</td></tr> <tr><td>7844</td><td>TURNER</td><td style="text-align: right;">\$15,00.00</td><td>SALESMAN</td><td style="text-align: right;">30</td></tr> <tr><td>7900</td><td>JAMES</td><td style="text-align: right;">\$9,50.00</td><td>CLERK</td><td style="text-align: right;">30</td></tr> </tbody> </table>	EMPNO	ENAME	SAL	JOB	DEPTNO	-----					7499	ALLEN	\$16,00.00	SALESMAN	30	7521	WARD	\$12,50.00	SALESMAN	30	7654	MARTIN	\$12,50.00	SALESMAN	30	7698	BLAKE	\$28,50.00	MANAGER	30	7844	TURNER	\$15,00.00	SALESMAN	30	7900	JAMES	\$9,50.00	CLERK	30
DEPTNO																																												

30																																												
EMPNO	ENAME	SAL	JOB	DEPTNO																																								

7499	ALLEN	\$16,00.00	SALESMAN	30																																								
7521	WARD	\$12,50.00	SALESMAN	30																																								
7654	MARTIN	\$12,50.00	SALESMAN	30																																								
7698	BLAKE	\$28,50.00	MANAGER	30																																								
7844	TURNER	\$15,00.00	SALESMAN	30																																								
7900	JAMES	\$9,50.00	CLERK	30																																								
<p>Write your query here: Select Deptno from emp where dept=sales;</p>	<p>Write your query here: select empno,ename,'\$' to_char (round (sal,2), '99,99.99') sal,job,deptno from emp where deptno=(select deptno from dept where dname= 'sales');</p>																																											

4.

<p>Question without Subquery [use DEPT] Display the department number of CHICAGO</p> <p>For example:</p>	<p>Question with Subquery [use EMP] Display Empno, ename, sal, job, deptno of all employees who are working in Chicago and making more than combined average salary of all employees..</p> <p>For example:</p>
<p>Write your query here: select deptno from dept where loc = 'CHICAGO' ;</p>	<p>Write your query here: select empno,ename,sal,job,deptno from emp where deptno=20 and sal>(select avg (sum(sal)) from emp group by sal;</p>

5.

<p>Question without Subquery [use DEPT] Display the department number of BOSTON</p> <p>For example:</p>	<p>Question with Subquery [use EMP] Display how many employees are working in BOSTON? I just need the count.</p> <p>For example:</p>
---	--

<p>Write your query here:</p> <pre>select deptno from dept where loc='BOSTON';</pre>	<p>Write your query here:</p> <pre>select count(*) from emp where deptno=(select deptno from emp where deptno=40);</pre>
--	--

6.

<p>Question without Subquery [use DEPT] Display the department number of RESEARCH</p> <p>For example:</p>	<p>Question with Subquery [use EMP] Display the average salary of RESEARCH department.</p> <p>For exampe:</p>
<p>Write your query here:</p> <pre>select deptno from dept where dname='RESEARCH';</pre>	<p>Write your query here:</p> <pre>select avg(sal) from emp where deptno=20;</pre>

7.

<p>Question without Subquery [use EMP] Display the deptno of each manager?</p> <p>For example:</p>	<p>Question with Subquery [use EMP, DEPT] Display empno, ename, job and salary of all managers who are working in SALES or ACCOUNTING department?</p> <p>For example:</p>
---	--

<p>Write your query here:</p> <p>select sal from emp where job='MANAGER';</p>	<p>Write your query here:</p> <p>select empno,ename,job,sal from emp where job= 'MANAGER' and deptno in (select deptno from dept where dname in ('ACCOUNTING','SALES'));</p>
---	--

8.

<p>Question without Subquery [use EMP] Display total salary of each department.</p> <p>For example:</p>	<p>Question with Subquery [use EMP, DEPT] Display the Deptno, total salary of RESEARCH department.</p> <p>For exampe:</p>
<p>Write your query here:</p> <p>select deptno,sum(sal) from emp group by deptno;</p>	<p>Write your query here:</p> <p>select deptno,sum(sal) from emp where deptno=(select deptno from dept where dname='RESEARCH') group by deptno;</p>

--	--

9.

<p>Question without Subquery [use EMP] Display Deptno and total employees working in each department.</p> <p>For example:</p>	<p>Question with Subquery [use EMP, DEPT] Display department number and total employees who are NOT working in BOSTON.</p> <p>For exampe:</p>
<p>Write your query here:</p> <pre>select deptno,count(*) from emp group by deptno;</pre>	<p>Write your query here:</p> <pre>select deptno,count(*) from emp where deptno<>(select deptno from dept where loc='BOSTON') group by deptno;</pre>

10.

<p>Question without Subquery [use EMP] List the maximum salary of each department</p> <p>For example:</p>	<p>Question with Subquery [use EMP, DEPT] List the empno, ename, sal and deptno of employee who is making the maximum salary in New York.</p> <p>For exampe:</p>
<p>Write your query here:</p> <pre>select max(sal) from emp group by deptno;</pre>	<p>Write your query here:</p> <pre>select empno,ename,sal,deptno from emp where deptno=(select deptno from dept where loc='NEW YORK') and sal=(select max(sal) from emp);</pre>

--	--

Moid Muhammad