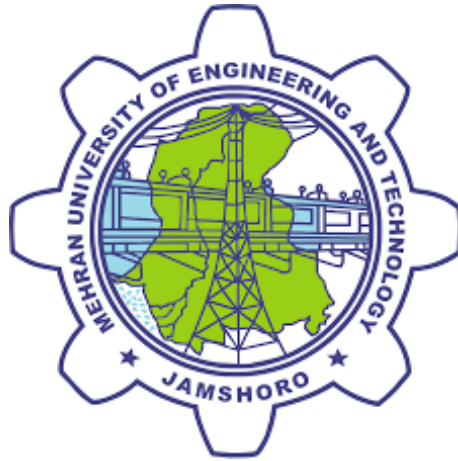
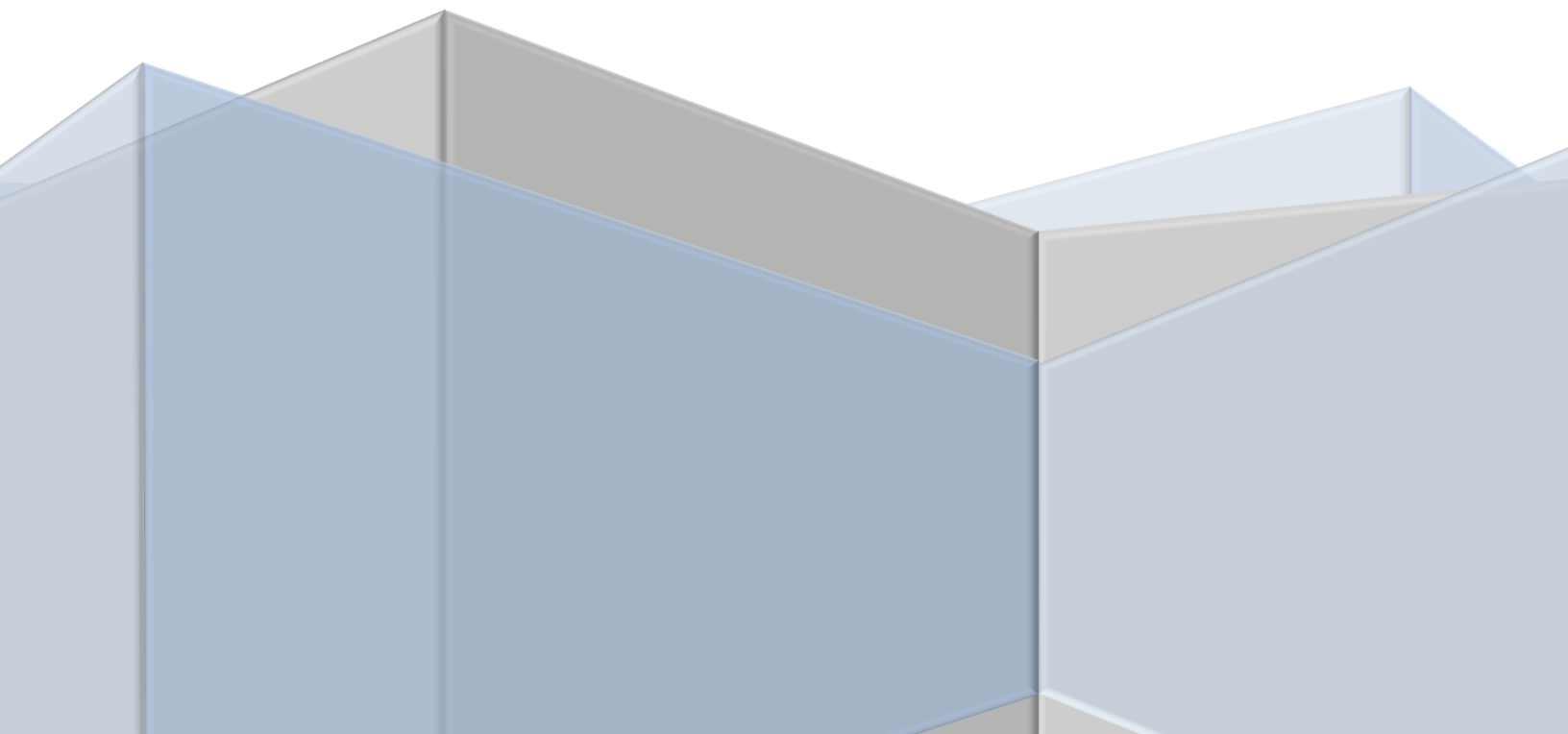


Mehran University of Engineering and Technology Jamshoro



ASSIGNMENT : SUB QUERIES
SUBJECT : DBMS(THEORY)
ROLL NO : 24BSAI29
SUBMITTED BY : SYED MUHAMMAD QASIM
SUBMITTED TO : Ms. Sana Faiz



TASK A

- Display the employees whose job description is same as that of employee 7428.

```
1 • SELECT *
2 FROM emp
3 WHERE job = ( SELECT job
4 FROM emp
5 WHERE empno = 7428
6 );
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

empno	ename	job	mgr	hiredate	sal	comm	deptno
-------	-------	-----	-----	----------	-----	------	--------

TASK B

Display all employees who are working in the same department as that of employees who earn salary of 1250.

```
10 • SELECT *
11 FROM emp
12 WHERE deptno IN ( SELECT deptno
13 FROM emp
14 WHERE sal = 1250
15 );
16
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

empno	ename	job	mgr	hiredate	sal	comm	deptno
7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30
7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00	30
7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30
7698	BLAKE	MANAGER	7839	1981-05-01	2850.00	NULL	30
7844	TURNER	SALESMAN	7698	1981-09-08	1500.00	0.00	30
7900	JAMES	CLERK	7698	1981-12-03	950.00	NULL	30

TASK C

- Display the employ numbers and names of all employees who work in a department with any employee whose name contains an 'A'.

```
16
17 • select empno,ename from emp where deptno in(
18 select deptno from emp where ename like "%A%");
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

empno	ename
7369	SMITH
7499	ALLEN
7521	WARD
7566	JONES
7654	MARTIN
7698	BLAKE
7782	CLARK
7788	SCOTT
7839	KING
7844	TURNER
7876	ADAMS
7900	JAMES
7902	FORD

emp 20 x

- Display the minimum salary of employees who work in department 10 or 30.

```
20 • select min(sal) from emp where deptno in (10,30);
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

min(sal)
950.00

```
21 • select min(sal) from emp where deptno in (10,30) group by deptno;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

min(sal)
950.00
1300.00

TASK D

- Display all departments that have minimum salary greater than that of department 20.

```
23 • select deptno from emp
24   group by deptno
25   having min(sal) > (select min(sal) from emp where deptno=20);
26
```

Result Grid | | Filter Rows: | Export: | Wrap Cell Content:

deptno
30
10

- Find the employees who earn the same salary as the maximum salary of each department.

```
27 • SELECT ename, sal FROM emp
28   WHERE sal IN (SELECT MAX(sal) FROM emp
29   GROUP BY deptno);
```

Result Grid | | Filter Rows: | Export: | Wrap Cell Content:

ename	sal
BLAKE	2850.00
SCOTT	3000.00
KING	5000.00
FORD	3000.00

- Display the name and salary of every employee who reports to KING.

```
31 • SELECT ename, sal FROM emp
32   WHERE mgr = (SELECT empno FROM emp
33   WHERE ename = "KING");
```

Result Grid | | Filter Rows: | Export: | Wrap Cell Content:

ename	sal
JONES	2975.00
BLAKE	2850.00
CLARK	2450.00

- Find the details of highest paid employee.

```
36 • SELECT * FROM emp
37 WHERE sal = (SELECT MAX(sal) FROM emp);
```

Result Grid Filter Rows: <input type="text"/> Export: Wrap Cell Content:								
empno	ename	job	mgr	hiredate	sal	comm	deptno	
7839	KING	PRESIDENT	NULL	1981-11-17	5000.00	NULL	10	

- List the employees who are senior to the most recently hired employee working under KING.

```
40 • SELECT ename FROM emp
41 WHERE hiredate < (SELECT MAX(hiredate) FROM emp
42 WHERE mgr = (SELECT empno FROM emp WHERE ename = "KING")
43 );
```

Result Grid Filter Rows: <input type="text"/> Export: Wrap Cell Content:	
	ename
	SMITH
	ALLEN
	WARD
	JONES
	BLAKE

- Display the annual salary of all the employees who salary is below that of all the employees employed in department 20 and department 30.

```
45 • SELECT ename, sal * 12 AS "Annual Salary" FROM emp
46 WHERE sal < (SELECT MIN(sal) FROM emp GROUP BY deptno HAVING deptno = 20)
47 AND sal < (SELECT MIN(sal) FROM emp GROUP BY deptno HAVING deptno = 30);
```

Result Grid Filter Rows: <input type="text"/> Export: Wrap Cell Content:		
	ename	Annual Salary

- Display the names and salaries of all the employees who earn more than the least average salary of each department.

```
49 • SELECT ename, sal FROM emp
50 WHERE sal > (SELECT MIN(avg_sal) FROM
51 (SELECT AVG(sal) AS avg_sal FROM emp GROUP BY deptno) AS dept_avg_sal);
```

<

Result Grid



Filter Rows:

Export:



Wrap Cell Content:



	ename	sal
▶	ALLEN	1600.00
	JONES	2975.00
	BLAKE	2850.00
	CLARK	2450.00
	SCOTT	3000.00
	KING	5000.00
	FORD	3000.00