Q1) Show the details of all employees.
=>
SELECT *
FROM emp

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO	PHONENO	ADDRESS
7369	SMITH	CLERK	7902	17-DEC-80	800	-	20	-	-
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30	-	-
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30	-	-
7566	JONES	MANAGER	7839	02-APR-81	2975	-	20	-	-
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30	-	-
7698	BLAKE	MANAGER	7839	01-MAY-81	2850	-	30	-	-
7782	CLARK	MANAGER	7839	09-JUN-81	2450	-	10	-	-
7788	SCOTT	ANALYST	7566	19-APR-87	3000	-	20	-	-
7839	KING	PRESIDENT	-	17-NOV-81	5000	-	10	-	-
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30	-	-
7876	ADAMS	CLERK	7788	23-MAY-87	1100	-	20	-	-
7900	JAMES	CLERK	7698	03-DEC-81	950	-	30	-	-
7902	FORD	ANALYST	7566	03-DEC-81	3000	-	20	-	-
7934	MILLER	CLERK	7782	23-JAN-82	1300	-	10	-	-

Q2) Show the department no. and name of all departments.
=>
SELECT deptno, dname

FROM dept

DEPTNO	DNAME
10	ACCOUNTING
20	RESEARCH
30	SALES
40	OPERATIONS

Q3) Display the employee id, name and department no of all employees whose department no is 20.

=>

```
SELECT empno, ename, deptno
FROM emp
WHERE deptno = 20
```

EMPNO	ENAME	DEPTNO
7369	SMITH	20
7566	JONES	20
7788	SCOTT	20
7876	ADAMS	20
7902	FORD	20

Q4) Display the details of all employees where department no should be in descending order.

=>

```
SELECT *
```

FROM emp
ORDER BY deptno DESC

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO	PHONENO	ADDRESS
7698	BLAKE	MANAGER	7839	01-MAY-81	2850	-	30	-	-
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30	-	-
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30	-	-
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30	-	-
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30	-	-
7900	JAMES	CLERK	7698	03-DEC-81	950	-	30	-	-
7788	SCOTT	ANALYST	7566	19-APR-87	3000	-	20	-	-
7566	JONES	MANAGER	7839	02-APR-81	2975	-	20	-	-
7369	SMITH	CLERK	7902	17-DEC-80	800	-	20	-	-
7876	ADAMS	CLERK	7788	23-MAY-87	1100	-	20	-	-
7902	FORD	ANALYST	7566	03-DEC-81	3000	-	20	-	-
7839	KING	PRESIDENT	-	17-NOV-81	5000	-	10	-	-
7934	MILLER	CLERK	7782	23-JAN-82	1300	-	10	-	-
7782	CLARK	MANAGER	7839	09-JUN-81	2450	-	10	-	-

Q5) Show all available jobs in the employee table.
=>
SELECT DISTINCT(job)

FROM emp

JOB
CLERK
SALESMAN
ANALYST
MANAGER
PRESIDENT

Q6) Show the name, Annual Salary and department no of employees who works as a clerk in department 20.

=>

SELECT ename, sal, deptno
FROM emp
WHERE job = ‘CLERK’ AND deptno = 20

ENAME	SAL	DEPTNO
SMITH	800	20
ADAMS	1100	20

Q7) Show the name and HIRED date of those employees whose name starts with ‘S’ or the second character is ‘C’.

=>

SELECT ename, hiredate
FROM emp
WHERE ename LIKE 'S%' OR ename LIKE '_C%'

ENAME	HIREDATE
SMITH	17-DEC-80
SCOTT	19-APR-87

Q8) Show the name, hire date and salary of those employees who are not a manager.

=>

```
SELECT ename, hiredate, sal
FROM emp
WHERE job <> 'manager'
```

ENAME	HIREDATE	SAL
SMITH	17-DEC-80	800
ALLEN	20-FEB-81	1600
WARD	22-FEB-81	1250
JONES	02-APR-81	2975
MARTIN	28-SEP-81	1250
BLAKE	01-MAY-81	2850
CLARK	09-JUN-81	2450
SCOTT	19-APR-87	3000
KING	17-NOV-81	5000
TURNER	08-SEP-81	1500
ADAMS	23-MAY-87	1100
JAMES	03-DEC-81	950
FORD	03-DEC-81	3000
MILLER	23-JAN-82	1300

Q9) Display all employee names in title case and length of the name.

=>

```
SELECT
        CONCAT(SUBSTR(ename, 1, 1),
                LOWER(SUBSTR(ename, 2, LENGTH(ename)))) name,
        LENGTH(ename) AS name_length
FROM
        emp
```

NAME	NAME_LENGTH
Smith	5
Allen	5
Ward	4
Jones	5
Martin	6
Blake	5
Clark	5
Scott	5
King	4
Turner	6
Adams	5
James	5
Ford	4
Miller	6

Q10) Display the name of the employee who gets the salary between 4000 to 6000.

=>

```
SELECT ename
FROM emp
WHERE sal >= 4000 AND sal <= 6000
```