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Bhujbal Knowledge City

Program No:	**09**
Roll No :	**1525**
Title of Program :	**Implementation of analytical queries Roll-up,CUBE**
Objective :	**Understand basic OLAP operations**

Source code:

```
CREATE TABLE employee (
   emp_no NUMBER(10),
   dep_no NUMBER(10),
   emp_name VARCHAR(25),
   salary NUMBER(10),
   comm NUMBER(10),
   job VARCHAR(25)
);

insert into employee VALUES (101,10,'sanket',22000,1000,'assistent');
insert into employee VALUES (102,10,'josh',22000,1000,'assistent');
insert into employee VALUES (103,20,'hendry',22000,1000,'CLERK');
insert into employee VALUES (104,70,'sanket cha papa',22000,1000,'manager');
insert into employee VALUES (105,10,'abhay',22000,1000,'assistent');
insert into employee VALUES (106,50,'james',22000,1000,'CLERK');
insert into employee VALUES (107,10,'bond',22000,1000,'CLERK');
insert into employee VALUES (108,10,'hardik',22000,1000,'assistent');
insert into employee VALUES (109,70,'rohit',22000,1000,'manager');
insert into employee VALUES (110,90,'rishab',22000,1000,'CLERK');

select dep_no,job,count(*),sum(salary) from employee group by
rollup (dep_no,job);
```

OUTPUT:

SQL Plus

```
manager


    EMP_NO     DEP_NO EMP_NAME                       SALARY       COMM
---------- ---------- ------------------------- ---------- ----------
JOB
-------------------------
       110         90 rishab                         22000       1000
CLERK


10 rows selected.

SQL> select dep_no,job,count(*),sum(salary) from employee group by
  2  rollup (dep_no,job);

    DEP_NO JOB                       COUNT(*) SUM(SALARY)
---------- ------------------------- ---------- -----------
        10 CLERK                              1       22000
        10 assistent                          4       88000
        10                                    5      110000
        20 CLERK                              1       22000
        20                                    1       22000
        50 CLERK                              1       22000
        50                                    1       22000
        70 manager                            2       44000
        70                                    2       44000
        90 CLERK                              1       22000
        90                                    1       22000

    DEP_NO JOB                       COUNT(*) SUM(SALARY)
---------- ------------------------- ---------- -----------
                                             10      220000

12 rows selected.

SQL>
```

```
SQL> select dep_no,job,count(*),sum(salary) from employee group by
  2  cube (dep_no,job);

    DEP_NO JOB                       COUNT(*) SUM(SALARY)
---------- ------------------------- ---------- -----------
                                           10      220000
           CLERK                            4       88000
           manager                          2       44000
           assistent                        4       88000
        10                                  5      110000
        10 CLERK                            1       22000
        10 assistent                        4       88000
        20                                  1       22000
        20 CLERK                            1       22000
        50                                  1       22000
        50 CLERK                            1       22000

    DEP_NO JOB                       COUNT(*) SUM(SALARY)
---------- ------------------------- ---------- -----------
        70                                  2       44000
        70 manager                          2       44000
        90                                  1       22000
        90 CLERK                            1       22000

15 rows selected.

SQL>
```