select last\_name, department, salary

from staff

where department='Tools'AND salary>100000

select department, sum(salary)

from staff

where department LIKE 'B%'

Group by department

select department, sum(salary)

from staff

where department LIKE 'Bo%'

Group by department

select department, sum(salary)

from staff

where department LIKE 'B%y’

Group by department

select UPPER(department)

from staff

select job\_title ||'-'|| department

from staff

For newly formed column yellow to name the column: select job\_title ||'-'|| department tit\_dept

from staff

select job\_title

from staff

where job\_title like 'Assistant%'

select job\_title, (job\_title like '%Assistant%')

from staff

select job\_title, (job\_title like '%Assistant%')is\_asst

from staff

select substring ('asdfghj' from 2 for 3) teststr

select job\_title, substring(job\_title from 10)

from staff

where job\_title like 'Assistant%'

select job\_title, overlay(job\_title placing 'Asst.' FROM 1 for 9)

from staff

where job\_title like 'Assistant%'

select job\_title

from staff

where job\_title SIMILAR TO '%Assistant%(III|IV)'

select job\_title

from staff

where job\_title SIMILAR TO '%Assistant I\_'

select job\_title

from staff

where job\_title SIMILAR TO '%Assistant% I\_'

select job\_title

from staff

where job\_title SIMILAR TO '[EPS]%'

select department, avg(salary), trunc(avg(salary)), round(avg(salary)), ceil(avg(salary))

from staff

group by department

*Compare a person’s salary with the average salary using subquerry*

* *Subquery using SELECT*

select s1.last\_name, s1.salary, s1.job\_title,

(select round(avg(salary))Avgsalary from staff s3 WHERE s3.department=s1.department)

from staff s1

* *Subquery using FROM*

select s1.department, round(avg(s1.salary))

from

(select department, salary

from staff

where salary >100000) s1

group by s1.department

* *Subquery using WHERE*

select s1.last\_name, s1.salary, s1.department

from staff s1

where s1.salary=(select max(s2.salary)

from staff s2)

JOINS

select s.last\_name, s.department, cd.company\_division

from staff s

join company\_divisions cd

on s.department= cd.department

LEFT JOIN

select s.last\_name, s.department, cd.company\_division

from staff s

LEFT join company\_divisions cd

on s.department= cd.department

where company\_division IS NULL

JOINING multiple tables

select s.\*, cd.company\_division, cr.company\_regions

from staff s

left join

company\_divisions cd

on s.department=cd.department

left join

company\_regions cr

on

s.region\_id= cr.region\_id

CREATE VIEW

CREATE VIEW staff\_div\_reg AS

select s.\*, cd.company\_division, cr.company\_regions

from staff s

left join

company\_divisions cd

on s.department=cd.department

left join

company\_regions cr

on

s.region\_id= cr.region\_id

From the created view

select company\_regions, count(\*)

from staff\_div\_reg

group by

company\_regions

order by company\_regions

Grouping sets

select company\_regions, company\_division, gender, count(\*)

from staff\_div\_reg

group by

Grouping sets(company\_division, company\_regions, gender)

order by company\_division, company\_regions, gender

ROLL UP

select

company\_regions, country, count(\*)

from sdrc

group by

rollup( country, company\_regions)

order by

country, company\_regions

CUBE

select

company\_division, company\_regions,  count(\*)

from sdrc

group by

cube(company\_division, company\_regions )

FETCH FIRST

select last\_name, job\_title, salary

from staff

order by salary desc

fetch first

10 rows only

select company\_division, count(\*)

from sdrc

group by company\_division

order by count(\*) desc

FEtch first

5 rows only

OVER PARTITION BY

select department, last\_name, salary,

max(salary) over (partition by department)

from staff

FIRST NAME

select department, last\_name, salary,

first\_value(salary) over(partition by department order by salary desc)

from staff

RANK

select department, last\_name, salary,

rank() over (partition by department order by salary desc)

from staff

LAG

select department, last\_name, salary,

lag(salary) over (partition by department order by salary desc)

from staff

select department, last\_name, salary,

lead(salary) over (partition by department order by salary desc)

from staff

NTILE

select department, last\_name, salary,

ntile(4) over (partition by department order by salary desc)

from staff