*Set autotrace on*

*select \* from employees where department\_id in (select department\_id from departments);*

*select e.\* from employees e, departments d where e.department\_id = d.department\_id;*

*select \* from employees where department\_id in (select department\_id from departments);*

*select e.\* from employees e,departments d where e.department\_id = d.department\_id;*

*select outer.employee\_id,outer.last\_name, outer.salary, outer.department\_id*

*from employees outer*

*where outer.salary>*

*(select avg(inner.salary)*

*from employees inner*

*where inner.department\_id = outer.department\_id) ;*

*select outer.employee\_id, outer.last\_name, outer.salary, outer.department\_id*

*from employees outer,*

*(select department\_id, avg(salary) avg\_sal*

*from employees*

*group by department\_id) inner*

*where outer.department\_id = inner.department\_id*

*create table t1 as select trunc((rownum-1)/100) id,*

*rpad(rownum,100) t\_pad from dba\_source*

*where rownum<= 10000;*

*create index t1\_idx1 on t1(id);*

*exec dbms\_stats.gather\_table\_stats(user,'t1',method\_opt=>'FOR ALL COLUMNS SIZE 1',cascade=>TRUE);*

*create table t2 as select mod(rownum,100) id,from where*

*rpad(rownum,100) t\_paddba\_sourcerownum<= 10000;*

*create index t2\_idx1 on t2(id);*

*execdbms\_stats.gather\_table\_stats(user,'t2',method\_opt=>'FOR ALL COLUMNS SIZE 1',cascade=>TRUE);*

*select count(\*) ct from t1 where id = 1 ;*

*select count(\*) ct from t2 where id = 1 ;*

*Select table\_name, num\_rows, blocks from user\_tables*

*Where table\_name in (‘T1’ ,’T2’);*

*select \* from t1 ;*

*select \* from t2 ;*

*select \* from hr.employees where employee\_id = 100;*

*select \* from hr.employees where department\_id = 60 ;*

*select \* from hr.employees where department\_id in (90, 100)*

*order by department\_id desc;*

*select email from hr.employees ;*

*select first\_name, last\_name from hr.employees*

*where first\_name like 'A%' ;*

*select \* from hr.employees order by employee\_id ;*

*select \* from hr.employees order by employee\_iddesc ;*

*select min(department\_id) from hr.employees ;*

*select min(department\_id), max(department\_id) from hr.employees ;*

*select (select min(department\_id) from hr.employees) min\_id, (select max(department\_id) from hr.employees) max\_id from dual*

***Index Skip Scan***

*create index emp\_jobfname\_ix on employees(job\_id, first\_name, salary);*

*select \* from employees where first\_name = 'William';*

***Index Fast Full Scan***

*alter table hr.employees modify (email null) ;*

*select email from hr.employees ;*

*setautotrace off*

*alter table hr.employees modify (email not null) ;*

*setautotracetraceonly explain*

*select email from hr.employees ;*

*Joins*

*Select empno, ename, dname, loc From emp, dept where emp.deptno = dept.deptno;*

*Select empno, ename, dname, loc from emp, dept where*

*emp.deptno = dept.deptno*

*select empno, ename, dname, loc from emp, dept where*

*emp.deptno = dept.deptno*

***Cartesian join***

*selectempno, ename, dname, loc from emp, dept*