

MULTITABLE INSERT

- Melhor performance em relação a procedures, scripts, etc
- Não é necessário incluir estrutura condicional
- Unconditional, Conditional All, Conditional First, Pivoting Insert

UNCONDITIONAL INSERT ALL

```
create table hr.sal_history (  
EMPLOYEE_ID NUMBER(6) constraint sal_history_employee_id primary key,  
HIRE_DATE DATE constraint sal_history_hire_date not null,  
SALARY NUMBER(8,2) constraint sal_history_salary not null)
```

```
CREATE TABLE hr.mgr_history (  
EMPLOYEE_ID NUMBER(6) constraint mrg_history_employee_id primary key,  
MANAGER_ID NUMBER(6) constraint mrg_history_manager_id not null,  
SALARY NUMBER(8,2) constraint mgr_history_salary not null)
```

```
commit
```

```
desc hr.mgr_history
```

```
desc hr.sal_history
```

```
desc hr.employees
```

```
insert all
```

```
into hr.sal_history values (empid, hiredate, sal)
```

```
into hr.mgr_history values (empid, mgr, sal)
```

```
select
```

```
employee_id empid,
```

```
hire_date hiredate,
```

```
salary sal,  
manager_id mgr  
from hr.employees  
where employee_id > 200
```

```
commit
```

```
select * from hr.mgr_history inner join hr.employees using (employee_id)  
select * from hr.sal_history inner join hr.employees using (employee_id)
```

CONDITIONAL INSERT ALL

```
insert all  
when sal > 10000 then  
    into hr.sal_history values (empid, hiredate, sal)  
when mgr > 200 then  
    into hr.mgr_history values (empid, mgr, sal)  
select  
    employee_id empid,  
    hire_date hiredate,  
    salary sal,  
    manager_id mgr  
from hr.employees  
where employee_id > 200
```

CONDITIONAL INSERT FIRST

PIVOTING INSERT

Auditoria de registros

```
update hr.employees set salary = salary * 1.50 where employee_id = 107;

commit;

select salary, versions_starttime, versions_endtime from hr.employees

versions between scn minvalue and maxvalue

where last_name = 'Lorentz';
```

Rollup

```
select emp.department_id, job.job_title, sum(emp.salary)

from hr.employees emp inner join hr.jobs job

on emp.job_id = job.job_id

group by rollup (emp.department_id,(job.job_title))
```

cube

```
select emp.department_id, job.job_title, sum(emp.salary)

from hr.employees emp inner join hr.jobs job

on emp.job_id = job.job_id

where department_id < 60

group by cube (emp.department_id, job.job_title)
```