

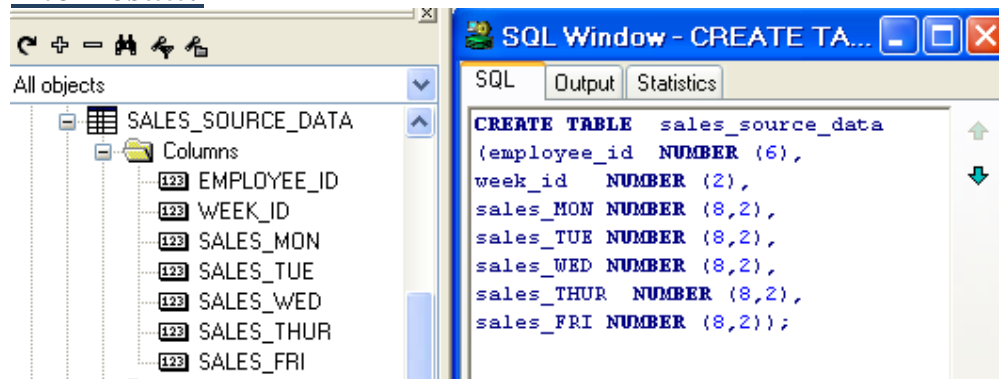


## Oracle LAB 10

### Exercise 1 :

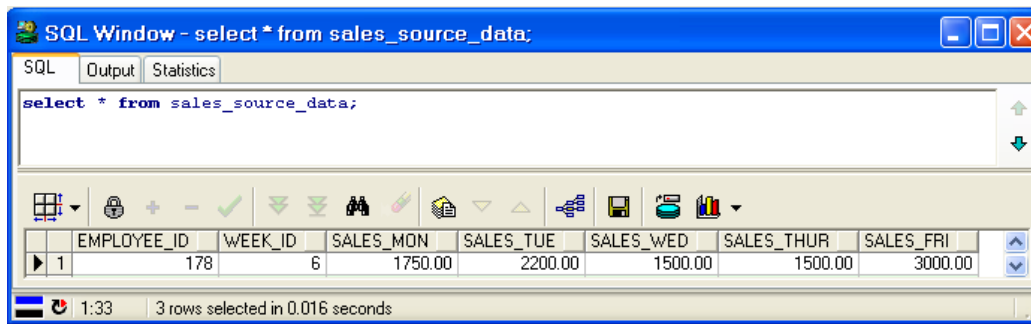
a- CREATE TABLE sales\_source\_data  
employee\_id NUMBER (6)  
week\_id NUMBER (2)  
sales\_MON NUMBER (8,2)  
sales\_TUE NUMBER (8,2)  
sales\_WED NUMBER (8,2)  
sales\_THUR NUMBER (8,2)  
sales\_FRI NUMBER (8,2)

### The Result:



b-INSERT INTO sales\_source\_data  
VALUES (178, 6, 1750, 2200, 1500, 1500, 3000);

### The Result:



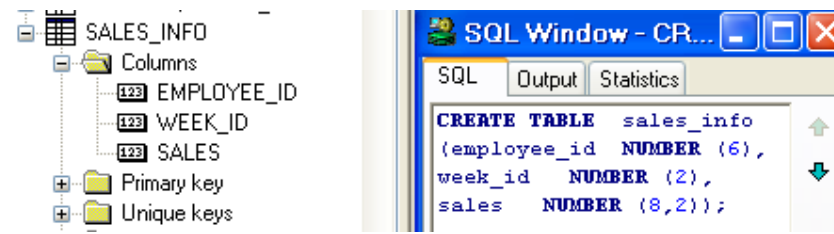


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Faculty of Engineering  
Computer Department

Advanced DataBase ECOM 5054  
Instructor: Eng. Husam Alzaq  
T.A: Eng. Doaa KH. Abu Jabal

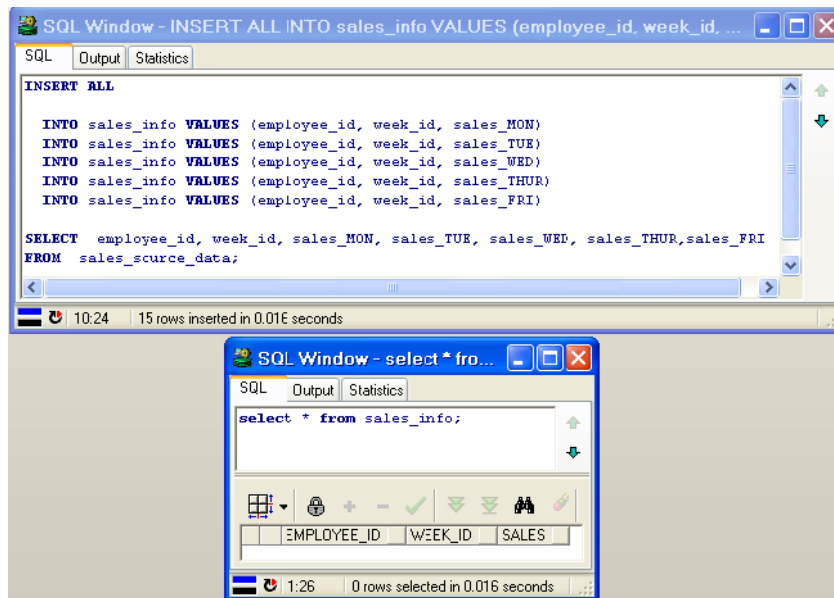
c- CREATE TABLE sales\_info  
employee\_id NUMBER (6)  
week\_id NUMBER (2)  
sales NUMBER (8,2)

### The Result:



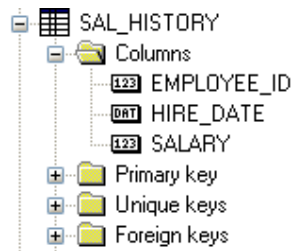
d- Write a query to do the following:  
Retrieve the details of employee ID, week ID, sales on Monday, sales on Tuesday, sales on Wednesday, sales on Thursday, and sales on Friday from the SALES\_SOURCE\_DATA table.  
Build a transformation such that each record retrieved from the SALES\_SOURCE\_DATA table is converted into multiple records for the SALES\_INFO table.  
**Hint:** Use a pivoting INSERT statement.

### The Result:

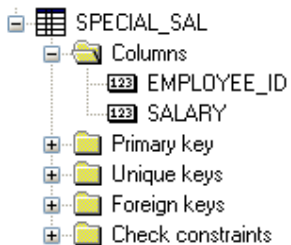




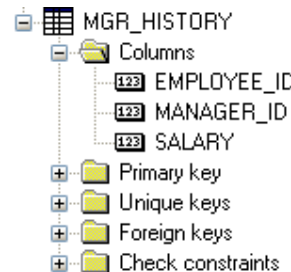
## Exercise 2: Create Tables:



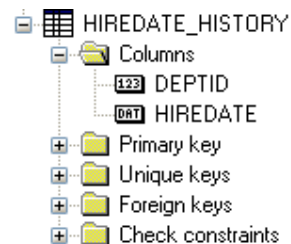
```
CREATE TABLE sal_history
(employee_id NUMBER (6),
hire_date DATE,
salary NUMBER (8,2));
```



```
CREATE TABLE special_sal
(employee_id NUMBER (6),
salary NUMBER (8,2));
```



```
CREATE TABLE mgr_history
(employee_id NUMBER (6),
manager_id NUMBER (6),
salary NUMBER (8,2));
```



```
CREATE TABLE hiredate_history
(DEPTID NUMBER (6),
HIREDATE DATE);
```



```
CREATE TABLE hiredate_history_00
(DEPTID NUMBER (6),
HIREDATE DATE);
```



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```
SQL Window - CREATE TABLE hireda...
SQL Output Statistics
CREATE TABLE hiredate_history_99
(DEPTID NUMBER (6),
HIREDATE DATE);
```

- **Unconditional INSERT ALL**

```
SQL Window - INSERT ALL INTO sal_history VALUES(EMPID,HIRE...
SQL Output Statistics
INSERT ALL
  INTO sal_history VALUES(EMPID,HIREDATE,SAL)
  INTO mgr_history VALUES(EMPID,MGR,SAL)
  SELECT employee_id EMPID, hire_date HIREDATE,salary SAL, manager_id MGR
  FROM employees
  WHERE employee_id > 200;
6:28 12 rows inserted in 0.032 seconds
```

- **Conditional INSERT ALL**

```
SQL Window - INSERT ALL WHEN SAL >...
SQL Output Statistics
INSERT ALL
  WHEN SAL > 10000 THEN
    INTO sal_history VALUES(EMPID,HIREDATE,SAL)
    WHEN MGR > 200 THEN
    INTO mgr_history VALUES(EMPID,MGR,SAL)
  SELECT employee_id EMPID,hire_date HIREDATE,
    salary SAL, manager_id MGR
  FROM employees
  WHERE employee_id > 200;
9:2 3 rows inserted in 0 seconds
```



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```
--SELECT * FROM sal_history;  
--SELECT * FROM mgr_history;  
--SELECT * FROM special_sal;  
--SELECT * FROM hiredate_history_00;  
--SELECT * FROM hiredate_history_99;  
--SELECT * FROM hiredate_history;
```

### Exercise 3:

```
CREATE TABLE empl3 AS  
SELECT employee_id , first_name, last_name, email, hire_date, job_id, salary, department_id  
FROM employees;
```

```
CREATE TABLE empl3 AS  
SELECT employee_id , first_name, last_name, email, hire_date, job_id, salary, department_id  
FROM employees;
```

- Merging Rows

```
MERGE INTO empl3 c  
USING employees e  
ON (c.employee_id = e.employee_id)  
WHEN MATCHED THEN  
UPDATE SET  
c.first_name = e.first_name,  
c.last_name = e.last_name,  
c.department_id = e.department_id  
WHEN NOT MATCHED THEN  
INSERT VALUES (e.employee_id, e.first_name, e.last_name,  
e.email, e.hire_date, e.job_id,  
e.salary, e.department_id);
```



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SQL Window - SELECT \* FROM emp13;

SQL Output Statistics

```
SELECT *  
FROM emp13;
```

	EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	HIRE_DATE	JOB_ID	SALARY	DEPARTMENT_ID
1	198	Donald	OConnell	DOCONNEL	21/06/1999	SH_CLERK	2600.00	50
2	199	Douglas	Grant	DGRANT	13/01/2000	SH_CLERK	2600.00	50
3	200	Jennifer	Whalen	JWHALEN	17/09/1987	AD_ASST	4400.00	10
4	201	Michael	Hartstein	MHARTSTE	17/02/1996	MK_MAN	80.00	20
5	202	Pat	Fay	PFAY	17/08/1997	MK_REP	6000.00	20
6	203	Susan	Mavris	SMAVRIS	07/06/1994	HR_REP	6500.00	40
7	204	Hermann	Baer	HBAER	07/06/1994	PR_REP	10000.00	70
8	205	Shelley	Higgins	SHIGGINS	07/06/1994	AC_MGR	12000.00	110
9	206	William	Gietz	WGIEZT	07/06/1994	AC_ACCOUNT	8300.00	110
10	100	Steven	King	SKING	17/06/1987	AD_PRES	24000.00	90
11	101	Neena	Kochhar	NKOCHHAR	21/09/1989	AD_VP	17000.00	90
12	102	Lex	De Haan	LDEHAAN	13/01/1993	AD_VP	17000.00	90
13	103	Alexander	Hunold	AHUNOLD	03/01/1990	IT_PROG	9000.00	60
14	104	Bruce	Ernst	BERNST	21/05/1991	IT_PROG	6000.00	60

3:1 14 rows selected in 0.047 seconds (more...)