SQL | USING Clause

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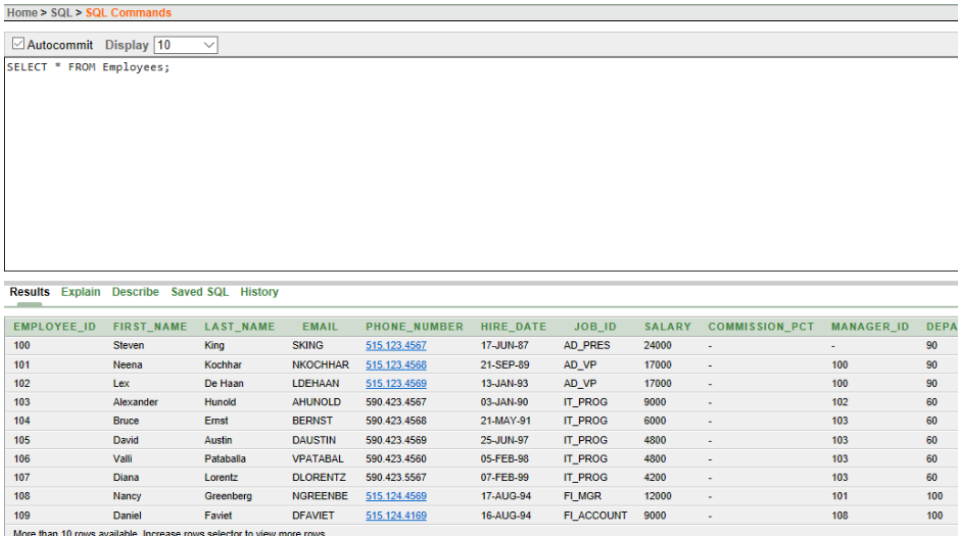
If several columns have the same names but the datatypes do not match, the NATURAL JOIN clause can be modified with the **USING** clause to specify the columns that should be used for an EQUIJOIN.

- USING Clause is used to match only one column when more than one column matches.
- NATURAL JOIN and USING Clause are mutually exclusive.
- It should not have a qualifier(table name or Alias) in the referenced columns.
- NATURAL JOIN uses all the columns with matching names and datatypes to join the tables. The USING Clause can be used to specify only those columns that should be used for an EQUIJOIN.

EXAMPLES:

We will apply the below mentioned commands on the following base tables:



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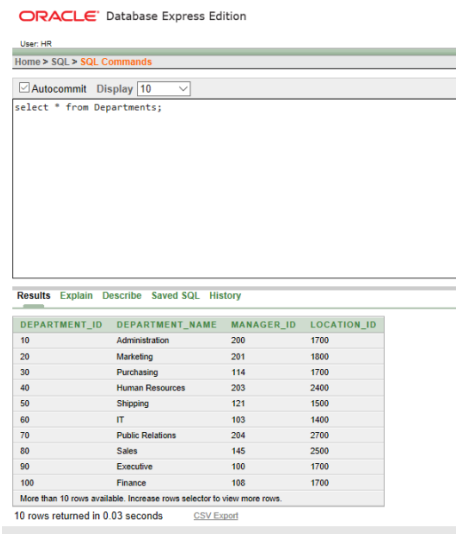
```
SELECT * FROM Employees;
```

Results Explain Describe Saved SQL History

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPA
100	Steven	King	SKING	515.123.4567	17-JUN-87	AD_PRES	24000	-	-	90
101	Neena	Kochhar	NKOCHHAR	515.123.4568	21-SEP-89	AD_VP	17000	-	100	90
102	Lex	De Haan	LDEHAAN	515.123.4569	13-JAN-93	AD_VP	17000	-	100	90
103	Alexander	Hunold	AHUNOLD	590.423.4567	03-JAN-90	IT_PROG	9000	-	102	60
104	Bruce	Ernst	BERNST	590.423.4568	21-MAY-91	IT_PROG	6000	-	103	60
105	David	Austin	DAUSTIN	590.423.4569	25-JUN-97	IT_PROG	4800	-	103	60
106	Valli	Pataballa	VPATABAL	590.423.4560	05-FEB-98	IT_PROG	4800	-	103	60
107	Diana	Lorentz	DLORENTZ	590.423.5567	07-FEB-99	IT_PROG	4200	-	103	60
108	Nancy	Greenberg	NGREENBE	515.124.4569	17-AUG-94	FI_MGR	12000	-	101	100
109	Daniel	Faviet	DFAVIET	515.124.4169	16-AUG-94	FI_ACCOUNT	9000	-	108	100

More than 10 rows available. Increase rows selector to view more rows.

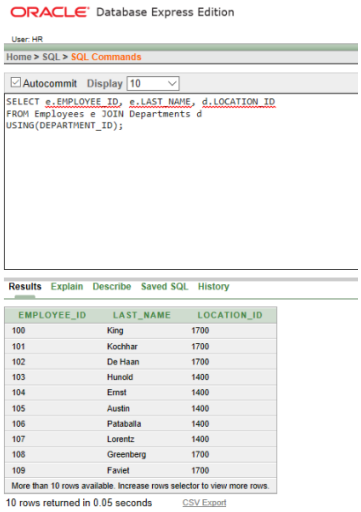
Employee Table



Department Table

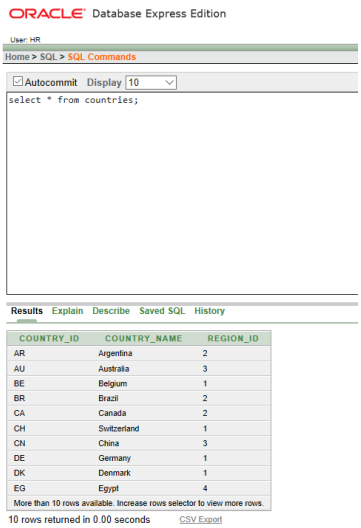
QUERY 1: Write SQL query to find the working location of the employees. Also give their respective employee_id and last_name?

```
Input : SELECT e.EMPLOYEE_ID, e.LAST_NAME, d.LOCATION_ID
FROM Employees e JOIN Departments d
USING(DEPARTMENT_ID);
Output :
```

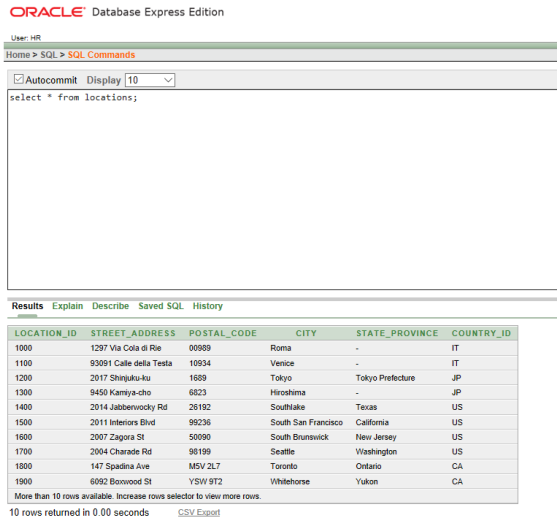


Explanation: The example shown joins the DEPARTMENT_ID column in the EMPLOYEES and DEPARTMENTS
tables, and thus shows the location where an employee works.

We will apply the below mentioned commands on the following base tables:



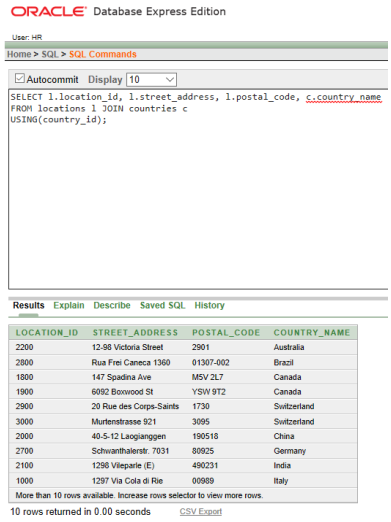
Country Table



Location Table

QUERY 2: Write SQL query to find the location_id, street_address, postal_code and their respective country name?

```
Input : SELECT l.location_id, l.street_address, l.postal_code, c.country_name
FROM locations l JOIN countries c
USING(country_id);
Output :
```

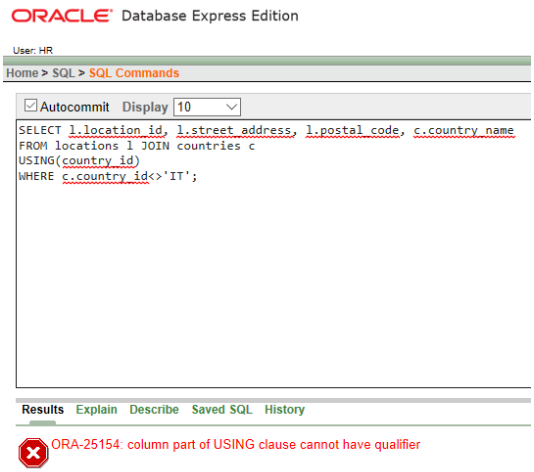


Explanation: The example shown joins the COUNTRY_ID column in the LOCATIONS and COUNTRIES
tables, and thus shows the required details.

NOTE: When we use the USING clause in a join statement, the join column is not qualified with table Alias. Do not Alias it even if the same column is used elsewhere in the SQL statement:

Example:

```
Input: SELECT l.location_id, l.street_address, l.postal_code, c.country_name
FROM locations l JOIN countries c
USING(country_id)
WHERE c.country_id'IT';
Output:
```



Explanation: Since the column in USING Clause is used again in WHERE Clause, thus it throws an error to the user.

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