

**Assignment Of**

**ITEC-515 DB Administration & Management**

**Practice Task-5**

**Submitted To:**

**Sir.Kamran Dahiri**

**Professor Dept:**

**Information Technology**

**Submitted By:**

**Mubashir Ali S/O**

**Mansoor Ali**

**(2k20/ITE/73) Group(A)**

**Lab Practice 5– Database Systems**

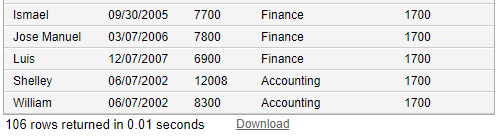
**Practice Question 1**

Write SQL query to show following output from **EMPLOYEES** and **DEPARTMENTS** tables using equi-join

**See output below**



….



**Answer:**

SELECT E.FIRST\_NAME,E.HIRE\_DATE,E.SALARY,D.DEPARTMENT\_NAME,D.LOCATION\_ID

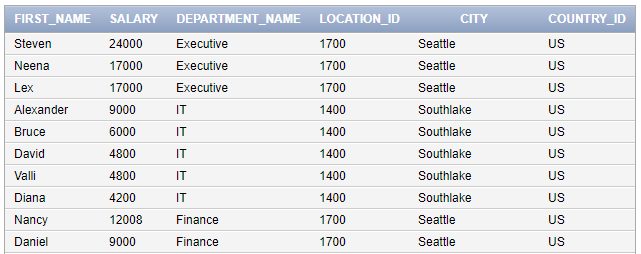
FROM EMPLOYEES E, DEPARTMENTS D

WHERE E.DEPARTMENT\_ID = D.DEPARTMENT\_ID;

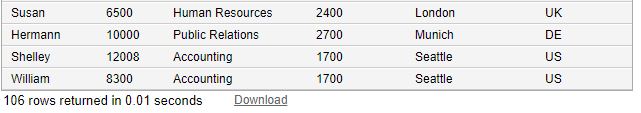
**Practice Question 2**

Write SQL query to show following output from **EMPLOYEES, DEPARTMENTS** and **LOCATIONS** tables using **equi-join**

**See output below**



….



**Answer:**

SELECT DISTINCT E.FIRST\_NAME,E.SALARY,DEPARTMENT\_NAME,D.LOCATION\_ID,CITY,L.COUNTRY\_ID

FROM EMPLOYEES E, DEPARTMENTS D,LOCATIONS L

WHERE E.DEPARTMENT\_ID = D.DEPARTMENT\_ID

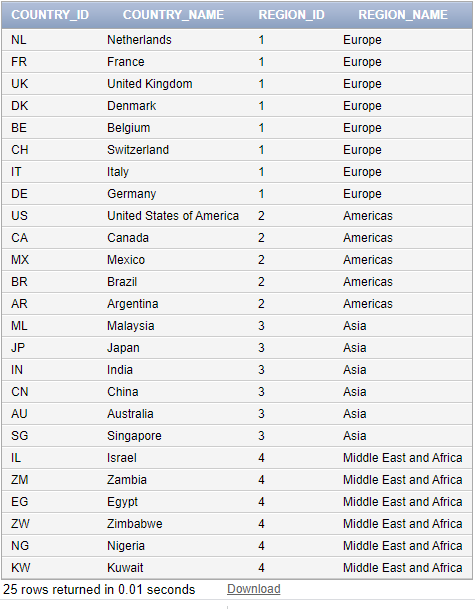
AND D.DEPARTMENT\_NAME IN ('EXECUTIVE','IT','FINANCE','HUMAN RESOURCES','PUBLIC REALATIONS','ACCOUNTING')

AND L.COUNTRY\_ID IN ('US','UK','DE');

**Practice Question 3**

Write SQL query to show following output from **COUNTRIES** and **REGIONS** tables using **INNER JOIN**

**See output below**



**Answer:**

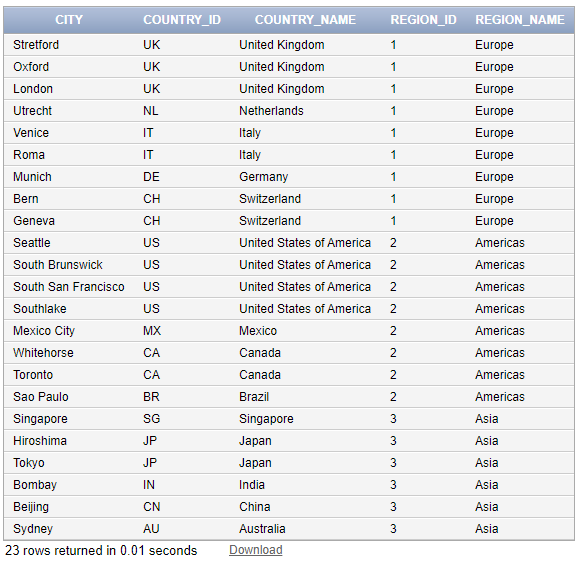
SELECT COUNTRY\_ID,COUNTRY\_NAME,REGION\_ID,REGION\_NAME

FROM COUNTRIES

NATURAL JOIN REGIONS;

**Practice Question 4**

Write SQL query to show following output from **LOCATIONS**, **COUNTRIES** and **REGIONS** tables using **INNER JOIN** (**hint: use two inner joins**)

**See output below **

**Answer:**

SELECT DISTINCT LOCATIONS.CITY, COUNTRIES.COUNTRY\_ID, COUNTRIES.COUNTRY\_NAME,REGIONS.REGION\_ID,REGIONS.REGION\_NAME FROM LOCATIONS

INNER JOIN COUNTRIES

ON LOCATIONS.COUNTRY\_ID = COUNTRIES.COUNTRY\_ID

INNER JOIN REGIONS

ON COUNTRIES.COUNTRY\_ID = LOCATIONS.COUNTRY\_ID

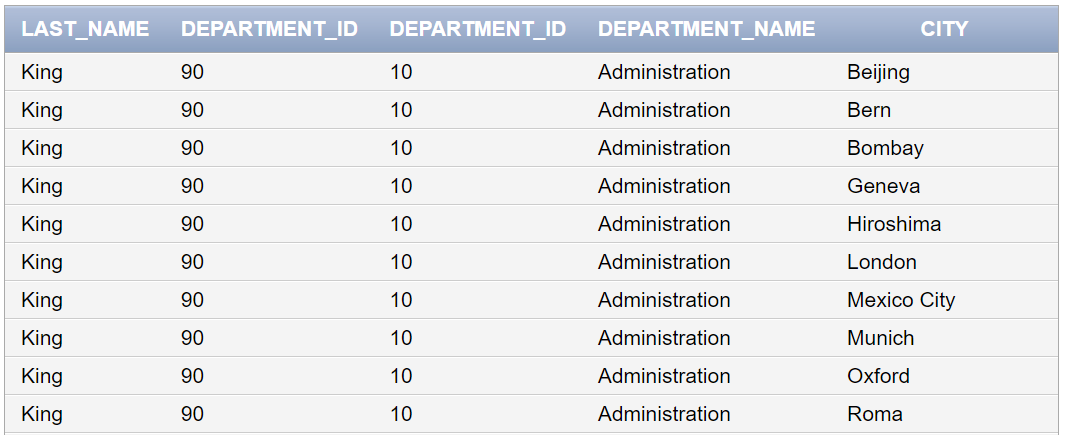
WHERE REGIONS.REGION\_NAME IN ('EUROPE','AMERICAS','ASIA')

ORDER BY REGIONS.REGION\_ID;

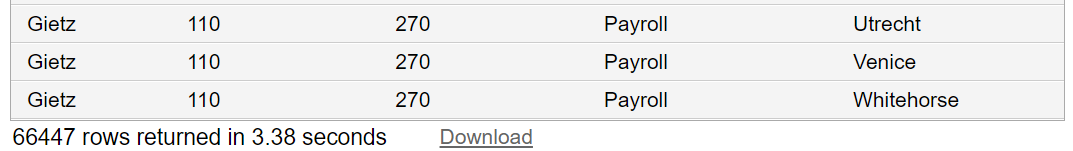
**Practice Question 5**

Write SQL query to do show **Cartesian Product** of **Employees**, **Departments** and **Locations** Tables.

**See output below**



…



**Answer:**

SELECT LAST\_NAME,EMPLOYEES.DEPARTMENT\_ID,DEPARTMENTS.DEPARTMENT\_ID,DEPARTMENT\_NAME,CITY

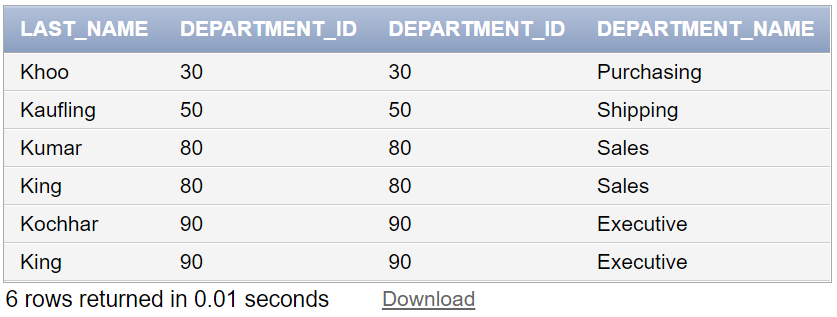
FROM EMPLOYEES,DEPARTMENTS,LOCATIONS;

**Practice Question 6**

Write SQL query to do show **Employee’s Last Names** whose name start with ‘**K**’ also show and **Department Names** against each name of employee

(Hint: Use Joining between **Employees** and **Departments** tables and also apply condition)

**For details see output below**



**Answer:**

SELECT LAST\_NAME,EMPLOYEES.DEPARTMENT\_ID,DEPARTMENTS.DEPARTMENT\_ID, DEPARTMENT\_NAME

FROM EMPLOYEES, DEPARTMENTS

WHERE EMPLOYEES.DEPARTMENT\_ID = DEPARTMENTS.DEPARTMENT\_ID

AND LAST\_NAME LIKE 'K%';

**THE END**