**SQL – IN CLASS LAB EXERCISE – 03**

**(JOINS)**

**Table Name: Hired**

|  |  |  |
| --- | --- | --- |
| EMP\_ID | EMP\_NAME | STATE |
| 01 | Edwin | TN |
| 02 | Perk | OR |
| 03 | Abhi | AP |
| 04 | Arshad | KA |

**Table Name: Department**

|  |  |
| --- | --- |
| DEPT\_ID | EMP\_ID |
| 02 | 02 |
| 01 | 01 |
| 01 | 03 |

**Table Name: Salary**

|  |  |  |
| --- | --- | --- |
| EMP\_ID | DEPT\_ID | SALARY |
| 01 | 01 | 25000 |
| 02 | 02 | 30000 |
| 03 | 01 | 50000 |
| 04 | Null | Null |

**1.Write a query to display the dept\_id, emp\_name, state and salary of only those employees who have been assigned a department.**

**ANSWER:**

SELECT d.dept\_id, h.emp\_NAME,h.state,s.salary

FROM hired h

INNER JOIN department d

ON h.emp\_id = d.emp\_id

Inner join salary s

On s.emp\_id = d.emp\_id;

**2. Write a query to display all the employee names and their salary,dept\_id (irrespective of their assignment to a particular department). Note : [emp\_name,salary,dept\_id]**

**ANSWER:**

SELECT h.emp\_NAME,s.salary,d.dept\_id

FROM hired h

left JOIN department d

ON h.emp\_id = d.emp\_id

Left join salary s

On s.emp\_id=d.emp\_id;

**3. Write a query to display all the records of the department table and the respective employee names assigned to them . Note : [dept\_id,emp\_name,salary]**

**ANSWER:**

SELECT d.dept\_id, h.emp\_NAME,s.salary

FROM hired h

right JOIN department d

ON h.emp\_id = d.emp\_id

Right join salary s

On d.emp\_id = s.emp\_id;

4. **write a query to fetch all the distinct records of emp\_id from hired & department table together.**

**ANSWER:**

select emp\_id FROM hired

union

select emp\_id from

department ;

**5. write a query to fetch all the records of emp\_id from hired & department table. together.**

**ANSWER:**

select emp\_id FROM hired

union all

select emp\_id from

department ;

**6.write a query to display the emp\_id,emp\_name,salary ,state and whose salary greater than 20000 and belong’s to the state ‘AP’.**

**ANSWER:**

SELECT h.emp\_id, h.emp\_name, s.salary, H.state

FROM hired h

JOIN

salary s ON h.emp\_id = s.emp\_id

GROUP BY emp\_id

HAVING salary > 20000

AND state = ‘ap’;

**7.write a query to display the emp\_id, emp\_name , salary ,state and whose salary greater than 10000 and less than 30000 and belongs to the state ‘TN’,’OR’.**

**ANSWER:**

SELECT h.emp\_id, h.emp\_name, s.salary, H.state

FROM hired h

JOIN

salary s ON h.emp\_id = s.emp\_id

GROUP BY emp\_id

HAVING salary > 10000 AND salary < 40000

AND state IN ('tn' , 'or');

**Table Name: Product**

|  |  |  |
| --- | --- | --- |
| PRODUCT\_ID | PRODUCT\_NAME | PRICE |
| P01 | BISCUITS | 10 |
| P02 | CHOCOLATES | 20 |
| P03 | BREAD | 15 |
| P04 | BUTTER | 30 |

**Table Name: Sales**

|  |  |
| --- | --- |
| SALES\_ID | PRODUCT\_ID |
| 02 | P02 |
| 01 | P01 |
| 01 | P03 |

**Table Name: Orders**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SALES\_ID** | **Cust\_id** | **PRODUCT\_ID** | **ORDER\_QUANTITY** | **Order\_status** |
| 02 | 101 | P02 | 100 | Shipped |
| 01 | 102 | P01 | 130 | shipped |
| 01 | 103 | P03 | 25 | cancelled |
| 02 | 104 | P01 | 50 | cancelled |

**Table Name: Customer**

|  |  |  |  |
| --- | --- | --- | --- |
| **Cust\_id** | **First\_name** | **Last\_name** | **Sales\_id** |
| 101 | Harry | Dany | 02 |
| 102 | Tom | Adein | 01 |
| 103 | Marina | paul | 01 |
| 104 | peter | kevin | 02 |
| 105 | David | warner |  |

**8.write a query to display cust\_id,full name along with total quantity of products ordered for sales ids greater than 1 and order\_status is cancelled.**

**[Note : cust\_id,fullname(firstname lastname),order\_quantity,sales\_id,order\_status]**

**ANSWER:**

select c.cust\_id,concat(c.first\_name,' ',c.last\_name) as fullname,

(o.order\_quantity) as total\_quantity,o.sales\_id,o.order\_status

FROM

customer c JOIN orders o

ON c.cust\_id = o.cust\_id having sales\_id >1

and order\_status ='cancelled' ;

**9. Write a query to Show distinct records of customer\_id, full name and total order value of premium customers (i.e. the customers who bought items total worth greater than RS.1000 )**

**[NOTE: customer\_id,fullname (Firstname Lastname),total(orderquantity\*price)]**

**ANSWER:**

select distinct(c.cust\_id),concat(c.first\_name,' ',c.last\_name)as fullname,(o.order\_quantity \* p.price) as total

from customer c join orders o on c.cust\_id=o.cust\_id join product p on p.product\_id=o.product\_id

group by cust\_id,fullname

having total > 1000;

**10. write a query to display the List out customers who haven’t bought any ‘bread’ or ‘butter’.**

**[NOTE:cust\_id,full name(first\_name last\_name),sales\_id,order\_status,product\_name]**

**ANSWER:**

select c.cust\_id,concat(c.first\_name,' ',c.last\_name) as fullname,

o.sales\_id,o.order\_status,p.product\_name

FROM customer c

JOIN orders o

ON c.cust\_id = o.cust\_id

join product p on p.product\_id = o.product\_id group by p.product\_id having p.product\_name not in ('bread','butter');