**LAB ASSIGNMENTS**

**ASSIGNMENT-1**

Q.1) Create the tables described below :

               Table Name : client\_master

|  |  |
| --- | --- |
| **Column name** | **Data Type & Size** |
| Client\_no | Varchar2(6) |
| Name | Varchar2(20) |
| Address1 | Varchar2(30) |
| Address2 | Varchar2(30) |
| City | Varchar2(15) |
| Pincode | Number(8) |
| State | Varchar2(15) |
| Bal\_due | Number(10,2) |

               Table Name : product\_master

|  |  |
| --- | --- |
| **Column name** | **Data Type & Size** |
| Product\_no | Varchar2(6) |
| Description | Varchar2(15) |
| Profit\_percent | Number(4,2) |
| Unit\_measure | Varchar2(10) |
| Qty\_on\_hand | Number(8) |
| Reorder\_lvl | Number(8) |
| Sell\_price | Number(8,2) |
| Cost\_price | Number(8,2) |

               Table Name : sales\_master

|  |  |
| --- | --- |
| **Column name** | **Data Type & Size** |
| Salesman\_no | Varchar2(6) |
| Salesman\_name | Varchar2(20) |
| Addr1 | Varchar2(30) |
| Addr2 | Varchar2(30) |
| City | Varchar2(20) |
| Pincode | Number(8) |
| State | Varchar |
| Sal\_amt | Number(8,2) |

Queries:

a)      Insert 10 rows into the respective tables through the input feature.

b)      Retrieve the entire contents of the client\_master table.

c)      List the various products available from the product\_master table.

d)      Find the names of the salesmen who have a salary less than or equal to Rs. 4000/-

e)      Change the cost price of  CD-ROM to Rs. 950/-

f)        Change the city of salesmen Chennai to Mumbai.

g)      Delete all products from product\_master where quantity on hand is equal to Rs. 100/-

h)      Change the size of sell\_price column in product\_master to 10,2.

i) Empty the table with truncate command.

j)      Create temp\_table from client\_master. Then delete the table client\_master along with its data.

Q.2) Create a table sales\_order where the column order\_no is its primary key. Define the constraint at column level.

|  |  |
| --- | --- |
| **Column name** | **Data Type & Size** |
| Order\_no | Varchar2(6) primary key |
| Order\_date | Date |
| Client\_no | Varchar2(6) |
| Delivery\_addr | Varchar2(25) |
| Salesman\_no | Varchar2(6) |
| Delivery\_type | Char(1) |
| Billed\_yn | Char(1) |
| Delivery\_date | Date |
| Order\_status | Varchar2(10) |

Create a table sales\_order\_details table with its primary key as dorder\_no and product\_no. The foreign key is dorder\_no, referencing column order\_no in the sales\_order table.

|  |  |
| --- | --- |
| **Column name** | **Data Type & Size** |
| dorder\_no | Varchar2(6) |
| Product\_no | Varchar2(6) |
| Qty\_order | Number(8) |
| Qty\_disp | Number(8) |
| Product\_rate | Number(8,2) |

Queries

a)      Retrieve the product\_no and the total quantity ordered for products POOOO1, POOOO4 from the sales\_order \_details table.

b)      Retrieve all orders placed by a client named XYZ from the sales\_order table.

c) Remove the primary key constraint.

Q.3) Create a table with the following columns :

            Empno             character                      5

            Deptno             numeric                        2

            Name               character                      15

            Desig                character                      15

            Basic                numeric                        10,2

            Join\_date          date                              date

            gender              character                      1

1. Set the composite key as empno and deptno.
2. Add 3 rows into the table.
3. Display all the records from the above table.
4. Display the empno, name, designation and basic salary of all the employees.
5. Display empno and name of all the employees from department no. 2
6. Display empno, name, desig, department no., and basic salary in the descending order of basic pay.
7. Display all designations without duplicate values.
8. Display empno,name,desig, and basic salary in the descending order of basic pay and in the ascending order of names.
9. Display the details of all employees who joined the organization in  99.
10. Empty the table and change the type of deptno to varchar.
11. Sort the table in the order of basic salary.
12. Create another table with relevant field from the above table and set foreign key which refer the master table.
13. Add a new field 'Address' to the new table.
14. Delete the records of employees whose basic is less than 5000.
15. Remove both master table and detail table.

Q 4) Create the following tables

Category\_ details (category\_id numeric (2), category\_name varchar (30) )

Sub\_category\_details (sub\_category\_id numeric(2), category\_id numeric(2),sub\_category\_name varchar(30))

Product\_details (Product\_id numeric (6), category\_id numeric(2),sub\_category\_id numeric(2), product\_name varchar(30))

Now perform the following operations:

1) Add a primary key constraint (without any constraint name) on column category\_id of category\_details table.

2) Add a primary key constraint with a constraint name on column sub\_category\_id of sub\_category\_details table.

3) Add a foreign key constraint with constraint name on column category\_id of sub\_category\_details table referencing category\_id of category\_details table.

4) For product\_details table add primary key constraint on product\_id. Also add foreign key constraint on category\_id and sub\_category\_id columns referencing category\_details(category\_id) and sub\_category\_details (sub\_category\_id). Give appropriate names for all constraints.

5) Add a new column (price numeric(2)) to product\_details table

6) Modify the data type of price to numeric(6,2)

7) Insert four tuples in the table. (With valid data)

8) Drop the price column

9) Add a new column BRANDNAME varchar(20) NOT NULL

10) Rename Category\_details table to Cat\_dt