1. Create the following tables:
   1. **Table Name :** Client\_master

**Description:** Use to store information about client

|  |  |  |  |
| --- | --- | --- | --- |
| **Column Name** | **Data Type** | **Size** | **Attributes** |
| client\_no | varchar2 | 6 | Primary key/first letter must start with ‘C’ |
| name | varchar2 | 20 | not null |
| address1 | varchar2 | 30 |  |
| address2 | varchar2 | 30 |  |
| city | varchar2 | 15 |  |
| state | varchar2 | 15 |  |
| pincode | number | 6 |  |
| bal\_due | number | 10,2 |  |

* 1. **Table Name:** product\_master

**Description:**  Use it store information about products.

|  |  |  |  |
| --- | --- | --- | --- |
| **Column Name** | **Data Type** | **Size** | **Attributes** |
| product\_no | varchar2 | 6 | Primary key/first letter must start with ‘P’ |
| description | varchar2 | 50 | not null |
| profit\_percent | number | 3,2 | not null |
| unit\_measure | varchar2 | 10 | not null |
| record\_lvl | number | 8 | not null |
| sell\_price | number | 8,2 | not null, cannot be 0 |
| cost\_price | number | 8,2 | not null, cannot be 0 |

* 1. **Table Name :** salesman\_master

**Description:** Use to store information about salesman working in the company

|  |  |  |  |
| --- | --- | --- | --- |
| **Column Name** | **Data Type** | **Size** | **Attributes** |
| salesman\_no | varchar2 | 6 | Primary key/first letter must start with ‘S’ |
| salesman\_name | varchar2 | 20 | not null |
| Address1 | varchar2 | 30 | not null |
| Address2 | varchar2 | 30 |  |
| city | varchar2 | 20 |  |
| pincode | varchar2 | 6 |  |
| state | varchar2 | 20 |  |
| sal\_amt | number | 8,2 | not null, cannot be 0 |
| tgt\_to\_get | number | 6,2 | not null, cannot be 0 |
| ytd\_sales | number | 6,2 | not null |
| remarks | varchar2 | 60 |  |

* 1. **Table Name :** sales\_order

**Description:** Use to store information about order

|  |  |  |  |
| --- | --- | --- | --- |
| **Column Name** | **Data Type** | **Size** | **Attributes** |
| s\_order\_no | varchar2 | 6 | Primary key/first letter must start with ‘O’ |
| s\_order\_date | date |  |  |
| client\_no | varchar2 | 6 | Foreign key references client\_no of client\_master table |
| dely\_addr | varchar2 | 25 |  |
| salesman\_no | varchar2 | 6 | Foreign key references salesman\_no of salesman\_master table |
| dely\_type | char | 1 | delivery :part (P) / full (F), Default ‘F’ |
| billed\_yn | char | 1 | delivery :part (Y) / full (N), Default ‘N’ |
| dely\_date | date |  | cannot be less than s\_order\_date |
| order\_status | varchar2 | 10 | values (‘in process’, ’Fulfilled’, ’BackOrder’, ’Canceled’) |

* 1. **Table Name:** sales\_order\_details

**Description:** Use to store information about products ordered.

|  |  |  |  |
| --- | --- | --- | --- |
| **Column Name** | **Data Type** | **Size** | **Attributes** |
| s\_order\_no | varchar2 | 6 | Foreign key references s\_order\_no of sales\_order table |
| product\_no | varchar2 | 6 | Foreign key references product\_no of product\_master table |
| qty\_ordered | number | 8 |  |
| qty\_disp | number | 8 |  |
| product\_rate | number | 10,2 |  |

* 1. **Table Name:** Challan\_Header

**Description:** Use to store information about challans made for the orders.

|  |  |  |  |
| --- | --- | --- | --- |
| **Column Name** | **Data Type** | **Size** | **Attributes** |
| challan\_no | varchar2 | 6 | Primary Key/First Two letters must start with ‘CH’ |
| s\_order\_no | varchar2 | 6 | Foreign Key references s\_order\_no of sales\_order table |
| challan\_date | date |  | not null |
| billed\_yn | char | 1 | values(‘Y’,’N’)Default ‘N’ |

* 1. **Table Name:** Challan\_details

**Description:** use to store information about challan details

|  |  |  |  |
| --- | --- | --- | --- |
| **Column Name** | **Data Type** | **Size** | **Attributes** |
| challan\_no | varchar2 | 6 | Primary Key/Foreign Key references challan\_no of challan\_header table. |
| product\_no | varchar2 | 6 | Primary Key/Foreign Key references product\_no of product\_master table |
| qty\_disp | number | 4,2 | not null |

2. Insert the following data into their respective tables using the SQL insert statement:

**1. Data for client\_master table**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Client No** | **Name** | **City** | **Pin Code** | **State** | **Bal\_Due** |
| C00001 | Ivan Bayross | Bombay | 400054 | Maharashtra | 15000 |
| C00002 | Vandana Saitwal | Madras | 780001 | Tamil Nadu | 0 |
| C00003 | Pramada Jaguste | Bombay | 400057 | Maharashtra | 5000 |
| C00004 | Basu Navindgi | Bombay | 400056 | Maharashtra | 0 |
| C00005 | Ravi Sreedharan | Delhi | 100001 | Delhi | 2000 |
| C00006 | Rukmini | Bombay | 400050 | Maharashtra | 0 |

**2. Data for Product\_master Table:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **ProductNo** | **Description** | **Profit %** | **UOM** | **qty\_on\_hand** | **Reorder lel** | **Sell Price** | **Cost Price** |
| P00001 | 1.44 Floppies | 5 | Piece | 100 | 20 | 525 | 500 |
| P03453 | Monitors | 6 | Piece | 10 | 3 | 12000 | 11280 |
| P06734 | Mouse | 5 | Piece | 20 | 5 | 1050 | 1000 |
| P07865 | 1.22 Floppies | 5 | Piece | 100 | 20 | 525 | 500 |
| P07868 | Keyboards | 2 | Piece | 10 | 3 | 3150 | 3050 |
| P07885 | CD Drive | 2.5 | Piece | 10 | 3 | 5250 | 5100 |
| P07965 | 540 HDD | 4 | Piece | 10 | 3 | 8400 | 8000 |
| P07975 | 1.44 Drive | 5 | Piece | 10 | 3 | 1050 | 1000 |
| P08865 | 1.22 Drive | 5 | Piece | 2 | 3 | 1050 | 1000 |

3. Data for Salesman\_master table:

**3. Data for salesman\_master table:**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Salesman\_ no | Salesman\_ name | Address1 | Address2 | City | Pin code | State | sal\_amt | Tgt\_to Get | Ytd sales | Remarks |
| S00001 | Kiran | A/14 | Worli | Bombay | 400002 | MAH | 3000 | 100 | 50 | Good |
| S00002 | Manish | 65 | Nariman | Bombay | 400001 | MAH | 3000 | 200 | 100 | Good |
| S00003 | Ravi | P-7 | Bandra | Bombay | 400032 | MAH | 3000 | 200 | 100 | Good |
| S00004 | Ashish | A/5 | Juhu | Bombay | 400044 | MAH | 3500 | 200 | 150 | Good |

**4. Data for sales\_order table :**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **S\_order\_no** | **S\_order\_date** | **Client No** | **Dely Type** | **Bill Yn** | **salesman no** | **Dely Date** | **Order Status** |
| O19001 | 12-Jan-1996 | C00001 | F | N | S00001 | 20-Jan-1996 | IP |
| O19002 | 25-Jan-1996 | C00002 | P | N | S00002 | 27-Jan-1996 | C |
| O46865 | 18-Feb-1996 | C00003 | F | Y | S00003 | 20-Feb-1996 | F |
| O19003 | 03-Apr-1996 | C00001 | F | Y | S00001 | 07-Apr-1996 | F |
| O46866 | 20-May-1996 | C00004 | P | N | S00002 | 22-May-1996 | C |
| O10008 | 24-May-1996 | C00005 | F | N | S00004 | 26-May-1996 | IP |

**5. Data for sales\_order\_details table:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **s\_order\_no** | **product\_no** | **Qty ordered** | **qty\_Disp** | **Product rate** |
| O19001 | P00001 | 4 | 4 | 525 |
| O19001 | P07965 | 2 | 1 | 8400 |
| O19001 | P07885 | 2 | 1 | 5250 |
| O19002 | P00001 | 10 | 0 | 525 |
| O46865 | P07868 | 3 | 3 | 3150 |
| O46865 | P07885 | 3 | 1 | 5250 |
| O46865 | P00001 | 10 | 10 | 525 |
| O46865 | P03453 | 4 | 4 | 1050 |
| O19003 | P03453 | 2 | 2 | 1050 |
| O19003 | P06734 | 1 | 1 | 12000 |
| O46866 | P07965 | 1 | 0 | 8400 |
| O46866 | P07975 | 1 | 0 | 1050 |
| O10008 | P00001 | 10 | 5 | 525 |
| O10008 | P07975 | 5 | 3 | 1050 |

**6. Data for challan\_header table:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Challan No** | **S Order No** | **Challan Date** | **Billed** |
| CH9001 | O19001 | 12-Dec-1995 | Y |
| CH6865 | O46865 | 12-Nov-1995 | Y |
| CH3965 | O10008 | 12-Oct-1995 | Y |

**7. Data for challan\_details table:**

|  |  |  |
| --- | --- | --- |
| **Challan No** | **Product No** | **Qty Disp** |
| CH9001 | P00001 | 4 |
| CH9001 | P07965 | 1 |
| CH9001 | P07885 | 1 |
| CH6865 | P07868 | 3 |
| CH6865 | P03453 | 4 |
| CH6865 | P00001 | 10 |
| CH3965 | P00001 | 5 |
| CH3965 | P07975 | 2 |