**Oracle Assignment: 3**

* **Table Name :**salesman\_master

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Column Name** | **Data Type** | **Size** | **Attributes** |
| salesman\_no | Varchar | 6 | Primary key/first letter must start with ‘S’ |
| salesman\_name | Varchar | 20 | not null |
| Address1 | Varchar | 30 | not null |
| Address2 | Varchar | 30 |  |
| city | Varchar | 20 |  |
| pincode | Varchar | 6 |  |
| state | Varchar | 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 | Varchar | 60 |  |

* **Table Name :**sales\_order

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

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

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

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

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

**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\_ordertable :**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **S\_order\_no** | **S\_order\_date** | **Client No** | **Dely Type** | **Bill Yn** | **salesman no** | **Dely Date** | **Order Status** |
| O19001 | 12-Jan-2021 | C00001 | F | N | S00001 | 20-Jan-2021 | IP |
| O19002 | 25-Jan-2021 | C00002 | P | N | S00002 | 27-Jan-2021 | C |
| O46865 | 18-Feb-2021 | C00003 | F | Y | S00003 | 20-Feb-2021 | F |
| O19003 | 03-Apr-2021 | C00001 | F | Y | S00001 | 07-Apr-2021 | F |
| O46866 | 20-May-2021 | C00004 | P | N | S00002 | 22-May-2021 | C |
| O10008 | 24-May-2021 | C00005 | F | N | S00004 | 26-May-2021 | 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 |

SOLUTION

a. CREATE TABLE salesman\_master (salesman\_no VARCHAR(6) PRIMARY KEY CONSTRAINT START\_S CHECK(salesman\_no LIKE 'S%'),

salesman\_name VARCHAR(20) NOT NULL,

address1 VARCHAR(30) NOT NULL,

address2 VARCHAR(30),

city VARCHAR(20),

pincode VARCHAR(6),

state VARCHAR(20),

sal\_amt NUMBER(8,2)NOT NULL CONSTRAINT SALCHECKNOTZERO

CHECK(SAL\_AMT != 0),

tgt\_to\_get NUMBER(6,2)NOT NULL CONSTRAINT TGTCHECKNOTZERO

CHECK(TGT\_TO\_GET != 0),

ytd\_sales NUMBER(6,2)NOT NULL,

remarks VARCHAR(60))

b. Create table SALES\_ORDER (S\_ORDER\_NO VARCHAR(6) PRIMARY KEY CONSTRAINT START\_IN\_O CHECK(S\_ORDER\_NO LIKE 'O%'),

S\_ORDER\_DATE DATE DEFAULT,

CLIENT\_NO VARCHAR(6) REFERENCES CLIENT\_MASTER(CLIENT\_NO),

DELY\_ADDR VARCHAR(25),

BILLED\_YN CHAR(1) DEFAULT 'N',

SALESMAN\_NO VARCHAR(6) REFERENCES SALESMAN\_MASTER(SALESMAN\_NO),

DELY\_DATE DATE ,

ORDER\_STATUS VARCHAR(10),

CONSTRAINT CHECK\_DATE CHECK(DELY\_DATE>S\_ORDER\_DATE),

CONSTRAINT CHECK\_Y\_N CHECK (BILLED\_YN = ANY('Y','N')),

CONSTRAINT ORDER\_STAT\_CHECK CHECK(ORDER\_STATUS = ANY('in

process','FullFilled', 'BackOrder', 'Canceled')))

c. create table sales\_order\_details (s\_order\_no varchar(6) references sales\_order,

product\_no varchar(6) references product\_master, qty\_ordered number(8),

qty\_disp number(8), product\_rate number(10,2))

3. INSERT ALL

INTO salesman\_master

(salesman\_no, salesman\_name, address1, address2,

city,pincode,state,sal\_amt,tgt\_to\_get,ytd\_sales, remarks)

VALUES('S00001', 'Kiran', 'A/14', 'Worli', 'Bombay', '400002', 'MAH', '3000', '100', '50', 'Good') INTO salesman\_master (salesman\_no, salesman\_name, address1, address2,

city,pincode,state,sal\_amt,tgt\_to\_get,ytd\_sales, remarks)

VALUES('S00002', 'Manish', '65', 'Nariman', 'Bombay', '400001', 'MAH', '3000', '200', '50',

'Good') INTO salesman\_master (salesman\_no, salesman\_name, address1, address2,

city,pincode,state,sal\_amt,tgt\_to\_get,ytd\_sales, remarks)

VALUES('S00003', 'Ravi', 'P-7', 'Bandra', 'Bombay', '400032', 'MAH', '3000', '200', '50', 'Good') INTO salesman\_master (salesman\_no, salesman\_name, address1, address2,

city,pincode,state,sal\_amt,tgt\_to\_get,ytd\_sales, remarks)

VALUES('S00004', 'Ashish', 'A/5', 'Juhu', 'Bombay', '400004', 'MAH', '3500', '200', '50', 'Good')

SELECT \* FROM dual;

4. INSERT INTO SALES\_ORDER

VALUES ('O19001','12-JAN-2021','C00001','F','N','S00001','20-JAN-2021', 'in process');

INSERT INTO SALES\_ORDER

VALUES ('O19002','25-JAN-2021','C00002','P','N','S00002','27-JAN-2021', 'Canceled');

INSERT INTO SALES\_ORDER

VALUES ('O46865','18-FEB-2021','C00003','F','Y','S00003','20-FEB-2021', 'FullFilled');

INSERT INTO SALES\_ORDER

VALUES ('O19003','03-APR-2021','C00001','F','Y','S00001','07-APR-2021', 'FullFilled');

INSERT INTO SALES\_ORDER

VALUES ('O46866','20-MAY-2021','C00004','P','N','S00002','22-MAY-2021', 'Canceled');

INSERT INTO SALES\_ORDER

VALUES ('O10008','24-MAY-2021','C00005','F','N','S00004','26-MAY-2021', 'in process')

5. INSERT INTO SALES\_ORDER\_DETAILS

VALUES ('O19001','P00001',4,4,525);

INSERT INTO SALES\_ORDER\_DETAILS

VALUES ('O19001','P07965',2,1,8400);

INSERT INTO SALES\_ORDER\_DETAILS

VALUES ('O19001','P07885',2,1,5250);

INSERT INTO SALES\_ORDER\_DETAILS

VALUES ('O19002','P00001',10,0,525);

INSERT INTO SALES\_ORDER\_DETAILS

VALUES ('O46865','P07868',3,3,3150);

INSERT INTO SALES\_ORDER\_DETAILS

VALUES ('O46865','P07885',3,1,5250);

INSERT INTO SALES\_ORDER\_DETAILS

VALUES ('O46865','P00001',10,10,525);

INSERT INTO SALES\_ORDER\_DETAILS

VALUES ('O46865','P03453',4,4,1050);

INSERT INTO SALES\_ORDER\_DETAILS

VALUES ('O19003','P03453',2,2,1050);

INSERT INTO SALES\_ORDER\_DETAILS

VALUES ('O19003','P06734',1,1,12000);

INSERT INTO SALES\_ORDER\_DETAILS

VALUES ('O46866','P07965',1,0,8400);

INSERT INTO SALES\_ORDER\_DETAILS

VALUES ('O46866','P07975',1,0,1050);

INSERT INTO SALES\_ORDER\_DETAILS

VALUES ('O10008','P00001',10,5,525);

INSERT INTO SALES\_ORDER\_DETAILS

VALUES ('O10008','P07975',5,3,1050);