

### Oracle Assignment: 3

a. **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	

b. **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')

c. **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	400003	MAH	3000	200	100	Good
S00004	Ashish	A/5	Juhu	Bombay	400004	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_Dis	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 '10-MAY-96',  
    CLIENT_NO VARCHAR(6),  
    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),  
    qty_ordered number(8),  
    qty_disp number(8),
```

```
product_rate number(10,2));
```

### 3. INSERTING OF SALESMAN\_MASTER

```
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);
```