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	

Answer:

```
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))

drop table salesman_master

desc salesman_master
```

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')

Answer:

CREATE TABLE sales_order
(s_order_no VARCHAR(6),
s_order_date DATE,
client_no VARCHAR(6),
dely_addr VARCHAR(25),
salesman_no VARCHAR(6),
dely_type CHAR(1) DEFAULT 'F',
billed_yn CHAR(1) DEFAULT 'N',
dely_date DATE,
order_status VARCHAR(10),
CONSTRAINT SALES_ORDER_PK PRIMARY KEY(s_order_no),
CONSTRAINT SALES_ORDER_START CHECK (s_order_no LIKE 'O%'),
FOREIGN KEY (client_no) REFERENCES client_master(client_no),
FOREIGN KEY (salesman_no) REFERENCES salesman_master(salesman_no),
CONSTRAINT DELY_TYPE_PARAMS CHECK (dely_type IN ('F','P')),
CONSTRAINT BILLED_YN_PARAMS CHECK (billed_yn IN ('Y','N')),
CONSTRAINT DELY_DATE_PARAMS CHECK (dely_date > s_order_date),
CONSTRAINT ORDER_STATUS_PARAMS CHECK (order_status LIKE 'in process' OR
order_status LIKE 'Fulfilled' OR
order_status LIKE 'BackOrder' OR
order_status LIKE '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	

Answer:

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. Data for salesman_master table:

Salesman_ no	Salesman_ name	Address1	Address 2	City	Pin code	State	sal_amt	Tgt_t o Get	Ytd sales	Remark s
S00001	Kiran	A/14	Worli	Bomba y	40000 2	MA H	3000	100	50	Good
S00002	Manish	65	Nariman	Bomba y	40000 1	MA H	3000	200	100	Good
S00003	Ravi	P-7	Bandra	Bomba y	40003 2	MA H	3000	200	100	Good
S00004	Ashish	A/5	Juhu	Bomba y	40004 4	MA H	3500	200	150	Good

Answer:

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. 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

Answer:

INSERT INTO sales_order
VALUES ('O19001','12-JAN-2021','F','N','S00001','20-JAN-2021', 'IP');
INSERT INTO sales_order
VALUES ('O19002','25-JAN-2021','P','N','S00002','27-JAN-2021', 'C');
INSERT INTO sales_order
VALUES ('O46865','18-FEB-2021','F','Y','S00003','20-FEB-2021', 'F');
INSERT INTO sales_order
VALUES ('O19003','03-APR-2021','F','Y','S00001','07-APR-2021', 'F');
INSERT INTO sales_order
VALUES ('O46866','20-MAY-2021','P','N','S00002','22-MAY-2021', 'C');
INSERT INTO sales_order
VALUES ('O10008','24-MAY-2021','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

Answer:

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);