

Oracle Assignment: 3

1.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	

```
CREATE TABLE salesman_master (  
    salesman_no VARCHAR(6),  
    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,  
    tgt_to_get NUMBER(6,2) NOT NULL,  
    ytd_sales NUMBER(6,2) NOT NULL,  
    remarks VARCHAR(60),  
    CONSTRAINT SALESMAN_MASTER_PK PRIMARY KEY (salesman_no),  
    CONSTRAINT SALESMAN_MASTER_START CHECK (salesman_no LIKE 'S%'),  
    CONSTRAINT SALCHECKNOTZERO CHECK(SAL_AMT != 0),  
    CONSTRAINT TGTCHECKNOTZERO CHECK(TGT_TO_GET != 0))
```

1.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')

```
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 (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 'IP' OR  
  order_status LIKE 'F' OR  
  order_status LIKE 'BO' OR  
  order_status LIKE 'C'))
```

1.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	

```
CREATE TABLE sales_order_details (  
  s_order_no VARCHAR(6),  
  product_no VARCHAR(6),  
  qty_ordered NUMERIC(8),  
  qty_disp NUMERIC(8),  
  product_rate NUMERIC(10,2),  
  FOREIGN KEY (s_order_no) REFERENCES sales_order (s_order_no),  
  CONSTRAINT SALES_ORDER_DETAILS_START CHECK (s_order_no LIKE 'O%'))
```

3. Data for salesman_master table:

salesman_no	salesman_name	address1	address2	city	pincode	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	400004	MAH	3500	200	150	Good

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_order table :

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

INSERT ALL

INTO sales_order

(s_order_no, s_order_date, client_no, dely_type, billed_yn, salesman_no, dely_date, order_status)

VALUES ('O19001', '12-Jan-2021', 'C00001', 'F', 'N', 'S00001', '20-Jan-2021', 'IP')

INTO sales_order

(s_order_no, s_order_date, client_no, dely_type, billed_yn, salesman_no, dely_date, order_status)

VALUES ('O19002', '25-Jan-2021', 'C00002', 'P', 'N', 'S00002', '27-Jan-2021', 'C')

INTO sales_order

(s_order_no, s_order_date, client_no, dely_type, billed_yn, salesman_no, dely_date, order_status)

VALUES ('O46865', '18-Feb-2021', 'C00003', 'F', 'Y', 'S00003', '20-Feb-2021', 'F')

INTO sales_order

(s_order_no, s_order_date, client_no, dely_type, billed_yn, salesman_no, dely_date, order_status)

VALUES ('O19003', '03-Apr-2021', 'C00001', 'F', 'Y', 'S00001', '07-Apr-2021', 'F')

INTO sales_order

(s_order_no, s_order_date, client_no, dely_type, billed_yn, salesman_no, dely_date, order_status)

VALUES ('O46866', '20-May-2021', 'C00004', 'P', 'N', 'S00002', '22-May-2021', 'C')

INTO sales_order

(s_order_no, s_order_date, client_no, dely_type, billed_yn, salesman_no, dely_date, order_status)

VALUES ('O10008', '24-May-2021', 'C00005', 'F', 'N', 'S00004', '26-May-2021', 'IP')

SELECT * FROM dual

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

INSERT ALL

```

INTO sales_order_details (s_order_no, product_no, qty_ordered, qty_disp, product_rate)
VALUES ('O19001', 'P00001', '4', '4', '525')
INTO sales_order_details (s_order_no, product_no, qty_ordered, qty_disp, product_rate)
VALUES ('O19001', 'P07965', '2', '1', '8400')
INTO sales_order_details (s_order_no, product_no, qty_ordered, qty_disp, product_rate)
VALUES ('O19001', 'P07885', '2', '1', '5250')
INTO sales_order_details (s_order_no, product_no, qty_ordered, qty_disp, product_rate)
VALUES ('O19002', 'P00001', '10', '0', '525')
INTO sales_order_details (s_order_no, product_no, qty_ordered, qty_disp, product_rate)
VALUES ('O46865', 'P07868', '3', '3', '3150')
INTO sales_order_details (s_order_no, product_no, qty_ordered, qty_disp, product_rate)
VALUES ('O46865', 'P07885', '3', '1', '5250')
INTO sales_order_details (s_order_no, product_no, qty_ordered, qty_disp, product_rate)
VALUES ('O46865', 'P00001', '10', '10', '525')
INTO sales_order_details (s_order_no, product_no, qty_ordered, qty_disp, product_rate)
VALUES ('O46865', 'P03453', '4', '4', '1050')
INTO sales_order_details (s_order_no, product_no, qty_ordered, qty_disp, product_rate)
VALUES ('O19003', 'P03453', '2', '2', '1050')
INTO sales_order_details (s_order_no, product_no, qty_ordered, qty_disp, product_rate)
VALUES ('O19003', 'P06734', '1', '1', '12000')
INTO sales_order_details (s_order_no, product_no, qty_ordered, qty_disp, product_rate)
VALUES ('O46866', 'P07965', '1', '0', '8400')
INTO sales_order_details (s_order_no, product_no, qty_ordered, qty_disp, product_rate)
VALUES ('O46866', 'P07975', '1', '0', '1050')
INTO sales_order_details (s_order_no, product_no, qty_ordered, qty_disp, product_rate)
VALUES ('O10008', 'P00001', '10', '5', '525')
INTO sales_order_details (s_order_no, product_no, qty_ordered, qty_disp, product_rate)
VALUES ('O10008', 'P07975', '5', '3', '1050')
SELECT * FROM dual
```