

## SET OPERATIONS:

(Lab Sheet – 1)

### 1) Salesman

#### ***Creation:***

```
SQL> create table salesman(salesman_id number(10),name varchar(20),city varchar(15),commission float(5));
```

Table created.

#### ***Insertion:***

```
SQL> insert into salesman(salesman_id,name,city,commission)
values('&salesman_id','&name','&city','&commission');
```

Enter value for salesman\_id: 5001

Enter value for name: James Hoog

Enter value for city: New York

Enter value for commission: 0.15

```
old 1: insert into salesman(salesman_id,name,city,commission)
values('&salesman_id','&name','&city','&commission')
```

```
new 1: insert into salesman(salesman_id,name,city,commission) values('5001','James Hoog','New
York','0.15')
```

1 row created.

```
SQL> /
```

Enter value for salesman\_id: 5002

Enter value for name: Nail Knite

Enter value for city: Paris

Enter value for commission: 0.13

```
old 1: insert into salesman(salesman_id,name,city,commission)
values('&salesman_id','&name','&city','&commission')
```

```
new 1: insert into salesman(salesman_id,name,city,commission) values('5002','Nail Knite','Paris','0.13')
```

1 row created.

SQL> /

Enter value for salesman\_id: 5005

Enter value for name: Pit Alex

Enter value for city: London

Enter value for commission: 0.11

```
old 1: insert into salesman(salesman_id,name,city,commission)
values('&salesman_id','&name','&city','&commission')
```

```
new 1: insert into salesman(salesman_id,name,city,commission) values('5005','Pit Alex','London','0.11')
```

1 row created.

SQL> /

Enter value for salesman\_id: 5006

Enter value for name: Mc Lyon

Enter value for city: Paris

Enter value for commission: 0.14

```
old 1: insert into salesman(salesman_id,name,city,commission)
values('&salesman_id','&name','&city','&commission')
```

```
new 1: insert into salesman(salesman_id,name,city,commission) values('5006','Mc Lyon','Paris','0.14')
```

1 row created.

SQL> /

Enter value for salesman\_id: 5007

Enter value for name: Paul Adam

Enter value for city: Rome

Enter value for commission: 0.13

old 1: insert into salesman(salesman\_id,name,city,commission)  
values('&salesman\_id','&name','&city','&commission')

new 1: insert into salesman(salesman\_id,name,city,commission) values('5007','Paul Adam','Rome','0.13')

1 row created.

SQL> /

Enter value for salesman\_id: 5003

Enter value for name: Lauson Hen

Enter value for city: San Jose

Enter value for commission: 0.12

old 1: insert into salesman(salesman\_id,name,city,commission)  
values('&salesman\_id','&name','&city','&commission')

new 1: insert into salesman(salesman\_id,name,city,commission) values('5003','Lauson Hen','San Jose','0.12')

1 row created.

***Display:***

SQL> select \* From salesman;

SALESMAN_ID	NAME	CITY	COMMISSION
5001	James Hoog	New York	.15
5002	Nail Knite	Paris	.13
5005	Pit Alex	London	.11
5006	Mc Lyon	Paris	.14
5007	Paul Adam	Rome	.13
5003	Lauson Hen	San Jose	.12

6 rows selected.

**2) Customer*****Creation:***

SQL> create table customer(customer\_id number(5),cust\_name varchar(15),city varchar(15),grade number(5),salesman\_id number(5));

Table created.

***Insertion:***

SQL> insert into customer(customer\_id,cust\_name,city,grade,salesman\_id)  
values('&customer\_id','&cust\_name','&city','&grade','&salesman\_id');

Enter value for customer\_id: 3002

Enter value for cust\_name: Nick Rimando

Enter value for city: New York

Enter value for grade: 100

Enter value for salesman\_id: 5001

```
old 1: insert into customer(customer_id,cust_name,city,grade,salesman_id)
values('&customer_id','&cust_name','&city','&grade','&salesman_id')
```

```
new 1: insert into customer(customer_id,cust_name,city,grade,salesman_id) values('3002','Nick
Rimando','New York','100','5001')
```

1 row created.

SQL> /

Enter value for customer\_id: 3007

Enter value for cust\_name: Brad Davis

Enter value for city: New York

Enter value for grade: 200

Enter value for salesman\_id: 5001

```
old 1: insert into customer(customer_id,cust_name,city,grade,salesman_id)
values('&customer_id','&cust_name','&city','&grade','&salesman_id')
```

```
new 1: insert into customer(customer_id,cust_name,city,grade,salesman_id) values('3007','Brad
Davis','New York','200','5001')
```

1 row created.

SQL> /

Enter value for customer\_id: 3005

Enter value for cust\_name: Graham Zusi

Enter value for city: California

Enter value for grade: 200

Enter value for salesman\_id: 5002

```
old 1: insert into customer(customer_id,cust_name,city,grade,salesman_id)
values('&customer_id','&cust_name','&city','&grade','&salesman_id')
```

```
new 1: insert into customer(customer_id,cust_name,city,grade,salesman_id) values('3005','Graham
Zusi','California','200','5002')
```

1 row created.

SQL> /

Enter value for customer\_id: 3008

Enter value for cust\_name: Julian Green

Enter value for city: London

Enter value for grade: 300

Enter value for salesman\_id: 5002

old 1: insert into customer(customer\_id,cust\_name,city,grade,salesman\_id)  
values('&customer\_id','&cust\_name','&city','&grade','&salesman\_id')

new 1: insert into customer(customer\_id,cust\_name,city,grade,salesman\_id) values('3008','Julian  
Green','London','300','5002')

1 row created.

SQL> /

Enter value for customer\_id: 3004

Enter value for cust\_name: Fabian Johnson

Enter value for city: Paris

Enter value for grade: 300

Enter value for salesman\_id: 5006

old 1: insert into customer(customer\_id,cust\_name,city,grade,salesman\_id)  
values('&customer\_id','&cust\_name','&city','&grade','&salesman\_id')

new 1: insert into customer(customer\_id,cust\_name,city,grade,salesman\_id) values('3004','Fabian  
Johnson','Paris','300','5006')

1 row created.

SQL> /

Enter value for customer\_id: 3009

Enter value for cust\_name: Geoff Cameron

Enter value for city: Berlin

Enter value for grade: 100

Enter value for salesman\_id: 5003

old 1: insert into customer(customer\_id,cust\_name,city,grade,salesman\_id)  
values('&customer\_id','&cust\_name','&city','&grade','&salesman\_id')

new 1: insert into customer(customer\_id,cust\_name,city,grade,salesman\_id) values('3009','Geoff  
Cameron','Berlin','100','5003')

1 row created.

SQL> /

Enter value for customer\_id: 3003

Enter value for cust\_name: Jozy Altidor

Enter value for city: Moscow

Enter value for grade: 200

Enter value for salesman\_id: 5007

old 1: insert into customer(customer\_id,cust\_name,city,grade,salesman\_id)  
values('&customer\_id','&cust\_name','&city','&grade','&salesman\_id')

new 1: insert into customer(customer\_id,cust\_name,city,grade,salesman\_id) values('3003','Jozy  
Altidor','Moscow','200','5007')

1 row created.

SQL> /

Enter value for customer\_id: 3001

Enter value for cust\_name: Brad Guzan

Enter value for city: London

Enter value for grade:

Enter value for salesman\_id: 5005

```
old 1: insert into customer(customer_id,cust_name,city,grade,salesman_id)
values('&customer_id','&cust_name','&city','&grade','&salesman_id')
```

```
new 1: insert into customer(customer_id,cust_name,city,grade,salesman_id) values('3001','Brad
Guzan','London','5005')
```

1 row created.

***Display:***

```
SQL> select * from customer;
```

CUSTOMER_ID	CUST_NAME	CITY	GRADE	SALESMAN_ID
3002	Nick Rimando	New York	100	5001
3007	Brad Davis	New York	200	5001
3005	Graham Zusi	California	200	5002
3008	Julian Green	London	300	5002
3004	Fabian Johnson	Paris	300	5006
3009	Geoff Cameron	Berlin	100	5003
3003	Jozy Altidor	Moscow	200	5007
3001	Brad Guzan	London		5005

8 rows selected.

3) Order table:

***Creation:***

```
SQL> create table order_table(ord_no number(7),purch_amnt float(10),ord_date
date,customer_id number(5),salesman_id number(5));
```

Table created.



***Display:***

SQL> select \* from order\_table;

ORD_NO	PURCH_AMNT	ORD_DATE	CUSTOMER_ID	SALESMAN_ID
70001	150.5	05-OCT-12	3005	5002
70009	270.7	10-SEP-12	3001	5005
70002	65.26	05-OCT-12	3002	5001
70004	110.5	17-AUG-12	3009	5003
70007	948.5	10-SEP-12	3005	5002
70005	2401	27-JUL-12	3007	5001
70008	5760	10-SEP-12	3002	5001
70010	1983	10-OCT-12	3004	5006
70003	2480	10-OCT-12	3009	5003
70012	250.5	27-JUN-12	3008	5002
70011	75.29	17-AUG-12	3003	5007

ORD_NO	PURCH_AMNT	ORD_DATE	CUSTOMER_ID	SALESMAN_ID
70013	3046	25-APR-12	3002	5001

12 rows selected.

### QUESTIONS:

1. write a SQL query to find all salespeople and customers located in the city of London.

```
SQL> select salesman_id,name from salesman where city='London'
```

2 UNION

```
3 select customer_id,cust_name from customer where city='London';
```

SALESMAN\_ID NAME

-----

3001 Brad Guzan

3008 Julian Green

5005 Pit Alex

2.write a SQL query to find distinct salespeople and their cities. Return salesperson ID and city.

```
SQL> select salesman_id,city from customer
```

2 UNION

```
3 select salesman_id,city from salesman;
```

SALESMAN\_ID CITY

-----

5001 New York

5002 California

5002 London

5002 Paris

5003 Berlin

5003 San Jose

5005 London

5006 Paris

5007 Moscow

5007 Rome

10 rows selected.

3.write a SQL query to find all those salespeople and customers who are involved in the inventory management system. Return salesperson ID, customer ID.

```
SQL> select salesman_id,customer_id from customer
```

```
2 UNION
```

```
3 select salesman_id,customer_id from order_table;
```

SALESMAN\_ID CUSTOMER\_ID

-----

5001 3002

5001 3007

5002 3005

5002 3008

5003 3009

5005 3001

5006 3004

5007 3003

8 rows selected.

4. write a SQL query to find the salespersons who generated the largest and smallest orders on each date. Return salesperson ID, name, order no., highest on/lowest on, order date