

MSC-DSAI : DBMS

Pradnya Tagad

L037

Practical : 1

#To create table of salesman:

create table salesman(

- > salesman_id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
- > name VARCHAR(100) NOT NULL,
- > city VARCHAR(100) NOT NULL,
- > commision DECIMAL(10,2)
- >);

```
mysql> desc salesman;
```

Field	Type	Null	Key	Default	Extra
salesman_id	int(11)	NO	PRI	NULL	auto_increment
name	varchar(100)	NO		NULL	
city	varchar(100)	NO		NULL	
commision	decimal(10,2)	YES		NULL	

4 rows in set (0.01 sec)

#To create table of customer:

create table customer(

- > customer_id INT AUTO_INCREMENT PRIMARY KEY,
- > customer_name VARCHAR(100) NOT NULL,
- > city VARCHAR(100) NOT NULL,
- > grade INT,
- > salesman_id INT,
- > FOREIGN KEY(salesman_id) REFERENCES salesman(salesman_id)
- >);

```
mysql> desc customer;
```

Field	Type	Null	Key	Default	Extra
customer_id	int(11)	NO	PRI	NULL	auto_increment
customer_name	varchar(100)	NO		NULL	
city	varchar(100)	NO		NULL	
grade	int(11)	YES		NULL	
salesman_id	int(11)	YES	MUL	NULL	

5 rows in set (0.00 sec)

#To create table of orders:

create table orders(

- > order_no INT AUTO_INCREMENT PRIMARY KEY,
- > purch_amt DECIMAL(10,2) NOT NULL,
- > order_date DATE NOT NULL,
- > customer_id INT,
- > salesman_id INT,
- > FOREIGN KEY(customer_id) REFERENCES customer(customer_id),
- > FOREIGN KEY(salesman_id) REFERENCES salesman(salesman_id)
- >);

```
mysql> desc orders;
```

Field	Type	Null	Key	Default	Extra
order_no	int(11)	NO	PRI	NULL	auto_increment
purch_amt	decimal(10,2)	NO		NULL	
order_date	date	NO		NULL	
customer_id	int(11)	YES	MUL	NULL	
salesman_id	int(11)	YES	MUL	NULL	

5 rows in set (0.01 sec)

#To insert the values of salesman:

insert into salesman values(5001, 'James Hoog', 'New York', 0.15);

insert into salesman values(5002, 'Nail knite', 'Paris', 0.13);

insert into salesman values(5005, 'Pit Alex', 'London', 0.11);

insert into salesman values(5006, 'MC Lyon', 'Paris', 0.14);

insert into salesman values(5003, 'Lauson Hen', '', 0.12);

insert into salesman values(5007, 'Paul Adam', 'Rome', 0.13);

salesman_id	name	city	commision
5001	James Hoog	New York	0.15
5002	Nail knite	Paris	0.13
5003	MC Lyon	Paris	0.14
5005	Pit Alex	London	0.11
5006	Lauson Hen	New York	0.12
5007	Paul Adam	Rome	0.13

6 rows in set (0.00 sec)

#Insert the values of customer:

```
insert into customer values(3001, 'Brad Guzan', 'London', NULL,5003);
insert into customer values(3004, 'Fabian Johns', 'Paris', 300,5006);
insert into customer values(3007, 'Brad davis', 'New York', 200,5001);
insert into customer values(3009, 'Geoff camero', 'Berlin', 100,5003);
insert into customer values(3008, 'Julian Green', 'London', 300,5002);
insert into customer values(3003, 'Jozy Altidor', 'Moncow', 200,5007);
```

salesman_id	name	city	commision
5001	James Hoog	New York	0.15
5002	Nail knite	Paris	0.13
5003	Lauson Hen		0.12
5005	Pit Alex	London	0.11
5006	MC Lyon	Paris	0.14
5007	Paul Adam	Rome	0.13

6 rows in set (0.00 sec)

#Insert the values of orders:

```
insert into orders values(70001, 150.5, '2016-10-05',3005,5002);
insert into orders values(70009, 270.65, '2016-09-10',3001,5003);
insert into orders values(70002, 65.26, '2016-10-15',3002,5001);
insert into orders values(70004, 110.5, '2016-08-17',3009,5003);
insert into orders values(70007, 948.5, '2016-09-10',3005,5002);
insert into orders values(70005, 2400.6, '2016-07-27',3007,5001);
insert into orders values(700010, 1983.43, '2016-10-10',3004,5006);
insert into orders values(70003, 2480.4, '2016-10-10',3009,5003);
insert into orders values(700012, 250.45, '2016-06-27',3008,5002);
insert into orders values(700011, 75.29, '2016-08-17',3003,5007);
```

customer_id	customer_name	city	grade	salesman_id
3001	Brad Guzan	London	NULL	5003
3002	Nick rimando	New York	100	5001
3003	Jozy Altidor	Moncow	200	5007
3004	Fabian Johns	Paris	300	5006
3005	Graham Zusi	California	200	5002
3007	Brad davis	New York	200	5001
3008	Julian Green	London	300	5002
3009	Geoff camero	Berlin	100	5003

1. Display name and commission for all the salesmen.

select name, commision FROM salesman;

```
mysql> select name, commision FROM salesman;
```

name	commision
James Hoog	0.15
Nail knite	0.13
Lauson Hen	0.12
Pit Alex	0.11
MC Lyon	0.14
Paul Adam	0.13

6 rows in set (0.00 sec)

2. Retrieve salesman id of all salesmen from orders table without any repeats.

select DISTINCT salesman_id FROM orders;

```
select DISTINCT salesman_id FROM orders;
```

salesman_id
5001
5002
5003
5006
5007

5 rows in set (0.00 sec)

3. Display names and city of salesman, who belongs to the city of Paris.

select name,city FROM salesman WHERE city='Paris';

```
select name,city FROM salesman WHERE city='Paris';
```

name	city
Nail knite	Paris
MC Lyon	Paris

2 rows in set (0.00 sec)

4. Display all the information for those customers with a grade of 200.

```
select * from customer WHERE grade=200;
```

customer_id	customer_name	city	grade	salesman_id
3003	Jozy Altidor	Moncow	200	5007
3005	Graham Zusi	California	200	5002
3007	Brad davis	New York	200	5001

5. Display the order number, order date and the purchase amount for order(s) which will be delivered by the salesman with ID 5001

```
select order_no, order_date, purch_amt FROM orders WHERE  
salesman_id="5001";
```

order_no	order_date	purch_amt
70002	2016-10-15	65.26
70005	2016-07-27	2400.60

2 rows in set (0.00 sec)

6. Display all the customers, who are either belongs to the city New York or not had a grade above 100.

```
select * from customer where city='New York' OR grade<=100;
```

customer_id	customer_name	city	grade	salesman_id
3002	Nick rimando	New York	100	5001
3007	Brad davis	New York	200	5001
3009	Geoff camero	Berlin	100	5003

7. Find those salesmen with all information who gets the commission within a range of 0.12 and 0.14.

```
select * from salesman WHERE commision BETWEEN 0.12 AND 0.14;
```

salesman_id	name	city	commision
5002	Nail knite	Paris	0.13
5003	Lauson Hen		0.12
5006	MC Lyon	Paris	0.14
5007	Paul Adam	Rome	0.13

4 rows in set (0.00 sec)

8. Find all those customers with all information whose names are ending with the letter 'n'.

```
select * from salesman WHERE name LIKE '%n';
```

salesman_id	name	city	commision
5003	Lauson Hen		0.12
5006	MC Lyon	Paris	0.14

2 rows in set (0.00 sec)

9. Find those salesmen with all information whose name containing the 1st character is 'N' and the 4th character is 'l' and rests may be any character.

```
select * from salesman WHERE name LIKE 'N_i%';
```

salesman_id	name	city	commision
5002	Nail knite	Paris	0.13

1 row in set (0.00 sec)

10. Find that customer with all information who does not get any grade except NULL.

```
select * from customer WHERE grade is NULL;
```

customer_id	customer_name	city	grade	salesman_id
3001	Brad Guzan	London	NULL	5003

1 row in set (0.00 sec)