Practical-1 (Aditya Pulikal / 22 / DSAI)

CREATE TABLE salesman(salesman_id INTEGER PRIMARY KEY,name TEXT,city TEXT,comission float);

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);

select * from salesman;

+			
salesman_id	name	city	comission
5002 5003 5005 5006 5007	James Hoog Nail Knite Lauson Hen Pit Alex Mc Lyon Paul Adam	New York Paris London Paris Rome	0.15 0.13 0.12 0.11 0.14 0.13

CREATE TABLE customer(customer_id int primary key,customer_name text,city text,grade int,salesman_id int,foreign key(salesman_id) references salesman(salesman_id)); INSERT INTO customer VALUES (3002, 'Nick Rimando' ,'New York', 100 ,5001); INSERT INTO customer VALUES (3005, 'Graham Zusi', 'California' ,200 ,5002); INSERT INTO customer VALUES (3001, 'Brad Guzan', 'London',null,null); INSERT INTO customer VALUES (3004, 'Fabian Johnson' ,'Paris' , 300, 5006); INSERT INTO customer VALUES (3007, 'Brad Davis', 'New York' , 200, 5001); INSERT INTO customer VALUES (3009, 'Geoff Cameron', 'Berlin', 100, null); INSERT INTO customer VALUES (3008 ,'Julian Green', 'London' , 300, 5002); INSERT INTO customer VALUES (3003 ,'Jozy Altidor', 'Moscow', 200, 5007); select * from customer;

+				+	++
I		customer_name			salesman_id
+		++	·	+	++
	3001	Brad Guzan	London	NULL	NULL
	3002	Nick Rimando	New York	100	5001
	3003	Jozy Altidor	Moscow	200	5007
	3004	Fabian Johnson	Paris	300	5006
	3005	Graham Zusi	California	200	5002
	3007	Brad Davis	New York	200	5001
	3008	Julian Green	London	300	5002
	3009	Geoff Cameron	Berlin	100	NULL
+		·		+	++

CREATE TABLE orders (ord_no INTEGER PRIMARY KEY,purch_amt float,ord_date date,customer_id INTEGER,foreign key(customer_id) references customer(customer_id),salesman_id INTEGER,foreign key(salesman_id) references salesman(salesman_id));

```
INSERT INTO orders VALUES (70001, 150.5, '2012-10-05', 3005, 5002); INSERT INTO orders VALUES (70009, 270.65, '2012-09-10', 3001, null); INSERT INTO orders VALUES (70002, 65.26, '2012-10-05', 3002, 5001); INSERT INTO orders VALUES (70004, 110.5, '2012-08-17', 3009, null); INSERT INTO orders VALUES (70007, 948.5, '2012-09-10', 3005, 5002); INSERT INTO orders VALUES (70005, 2400.6, '2012-07-27', 3007, 5001); INSERT INTO orders VALUES (70008, 5760, '2012-09-10', 3002, 5001); INSERT INTO orders VALUES (70010, 1983.43, '2012-10-10', 3004, 5006); INSERT INTO orders VALUES (70003, 2480.4, '2012-10-10', 3009, null); INSERT INTO orders VALUES (70012, 250.45, '2012-06-27', 3008, 5002); INSERT INTO orders VALUES (70011, 75.29, '2012-08-17', 3003, 5007); select * from orders;
```

+	+-		+-		+	+		+
ord_n	0	purch_amt		ord_date	custome	er_id	salesm	an_id
+	+-		+-		+	+		+
7000	1	150.5		2012-10-05		3005		5002
7000	2	65.26		2012-10-05		3002		5001
7000	3	2480.4		2012-10-10		3009		NULL
7000	4	110.5		2012-08-17		3009		NULL
7000	5	2400.6		2012-07-27		3007		5001
7000	7	948.5		2012-09-10		3005		5002
7000	8	5760		2012-09-10		3002		5001
7000	9	270.65		2012-09-10		3001		NULL
7001	.0	1983.43		2012-10-10		3004		5006
7001	1	75.29		2012-08-17		3003 ^A	ctivate	5007 CIC
7001	2	250.45		2012-06-27		3008 ^G ¶	to Setti	n gôؤۇ qc
+	+-		+-		+	+		+

Q1:

```
Q2: mysql> select distinct salesman_id from salesman;
+-------+
| salesman_id |
+------+
| 5001 |
| 5002 |
| 5003 |
| 5005 |
| 5006 |
| 5007 |
+------+
6 rows in set (0.02 sec)
```

```
mysql> select * from customer where grade = 200;

| customer_id | customer_name | city | grade | salesman_id |
| customer_id | customer_name | city | grade | salesman_id |
| 3003 | Jozy Altidor | Moscow | 200 | 5007 |
| 3005 | Graham Zusi | California | 200 | 5002 |
| 3007 | Brad Davis | New York | 200 | 5001 |
| customer_id | customer_name | city | grade | salesman_id |
| customer_id | customer_name | city | grade | salesman_id |
| customer_id | customer_name | city | grade | salesman_id |
| customer_id | customer_name | city | grade | salesman_id |
| customer_id | customer_name | city | grade | salesman_id |
| customer_id | customer_name | city | grade | salesman_id |
| customer_id | customer_name | city | grade | salesman_id |
| customer_id | customer_name | city | grade | salesman_id |
| customer_id | customer_name | city | grade | salesman_id |
| customer_id | customer_name | city | grade | salesman_id |
| customer_id | customer_name | city | grade | salesman_id |
| customer_id | customer_name | city | grade | salesman_id |
| customer_id | customer_name | city | grade | salesman_id |
| customer_id | customer_name | city | grade | salesman_id |
| customer_id | customer_name | city | grade | salesman_id |
| customer_id | customer_name | city | grade | salesman_id |
| customer_id | customer_name | city | grade | salesman_id |
| customer_id | customer_name | city | grade | salesman_id |
| customer_id | customer_name | city | grade | salesman_id |
| customer_id | customer_name | city | grade | salesman_id |
| customer_id | customer_name | city | grade | salesman_id |
| customer_id | customer_name | city | grade | salesman_id |
| customer_id | customer_id | customer_id | customer_id |
| customer_id | customer_id | customer_id | customer_id |
| customer_id | customer_id | customer_id | customer_id |
| customer_id | customer_id | customer_id | customer_id |
| customer_id | customer_id | customer_id | customer_id | customer_id |
| customer_id | customer_id | customer_id | customer_id | customer_id | customer_id | c
```

```
mysql> select ord_no,ord_date,purch_amt from orders where salesman_id = 5001;
+-----+
| ord_no | ord_date | purch_amt |
+-----+
| 70002 | 2012-10-05 | 65.26 |
| 70005 | 2012-07-27 | 2400.6 |
| 70008 | 2012-09-10 | 5760 |
+-----+
3 rows in set (0.01 sec)
```

```
mysql> select * from customer where customer_name like '%n';

| customer_id | customer_name | city | grade | salesman_id |
| 3001 | Brad Guzan | London | NULL | NULL |
| 3004 | Fabian Johnson | Paris | 300 | 5006 |
| 3008 | Julian Green | London | 300 | 5002 |
| 3009 | Geoff Cameron | Berlin | 100 | NULL |

+ rows in set (0.01 sec)
```

```
Q15: mysql> select * from salesman where name like 'n_i%';
```

Q16: mysgl> select * from customer where grade is NULL;

```
| customer_id | customer_name | city | grade | salesman_id |
| Activate Wind
| 3001 | Brad Guzan | London | NULL Go to Settings to a
```

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Q17: mysql> select sum(purch_amt) from orders;
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Q18: mysql> select count(salesman_id) from orders;

```
+----+
| count(salesman_id) |
+----+
| 8 |
```

select count(distinct salesman_id) from orders;

Q19; mysql> select city,max(grade) from customer Group by city;

+	++
city	max(grade)
+	++
London	300
New York	200
Moscow	200
Paris	300
California	200
Berlin	100
4	L

Q20: mysql> select customer_id,max(purch_amt) from orders Group by customer_id;

+	+ -
customer_id	max(purch_amt)
+	+
3001	270.65
3002	5760
3003	75.29
3004	1983.43
3005	948.5
3007	2400.6
3008	250.45
3009	2480.4
+	L

Q21: mysql> select customer_id,ord_date,max(purch_amt) from orders group by customer_id,ord_date;

```
+----+
| customer_id | ord_date | max(purch_amt) |
+----+
     3005 | 2012-10-05 |
                       65.26
    3002 | 2012-10-05 |
                     2480.4
    3009 | 2012-10-10 |
     3009 | 2012-08-17 |
                       110.5
                      2400.6
    3007 | 2012-07-27 |
    3005 | 2012-09-10 |
                       948.5
    3002 | 2012-09-10 |
                        5760
    3001 | 2012-09-10 |
                      270.65
                     1983.43
    3004 | 2012-10-10 |
                       75.29
    3003 | 2012-08-17 |
    3008 | 2012-06-27 |
                      250.45
+----+
```

Q22: mysql> select salesman_id,max(purch_amt) from orders where ord_date = '2012-08-17' group by salesman_id;

Q23: mysql> select customer_id,ord_date,max(purch_amt) from orders group by customer_id,ord_date having max(purch_amt)>2000;

Q24: mysql> select count(*) from orders where ord_date= '2012-08-17';