

Answer to the question no-01

```
CREATE TABLE customers
```

```
(  
    id INT,  
    name VARCHAR(30)
```

```
);
```

```
CREATE TABLE _order
```

```
(  
    id INT,  
    customer_id INT
```

```
);
```

```
INSERT INTO customers(id,name)
```

```
VALUES(101,"A");
```

```
INSERT INTO customers(id,name)
```

```
VALUES(102,"B");
```

```
INSERT INTO customers(id,name)
```

```
VALUES(103,"C");
```

```
INSERT INTO customers(id,name)
```

```
VALUES(104,"D");
```

```
INSERT INTO _order(id,customer_id)
```

```
VALUES(1001,101);
```

```
INSERT INTO _order(id,customer_id)
```

```
VALUES(1002,101);
```

```
INSERT INTO _order(id,customer_id)
```

```
VALUES(1003,103);
```

```
INSERT INTO _order(id,customer_id)
```

```
VALUES(1004,104);
```

```
SELECT name
```

```
FROM customers c
```

```
WHERE NOT EXIST
```

```
(  
    SELECT customer_id  
    FROM _order o  
    WHERE o.customer_id=c.id
```

```
);
```

Answer to the question no-02

```
CREATE TABLE person
```

```
(  
    id int,  
    email varchar(50) UNIQUE  
);
```

```
INSERT IGNORE INTO person(id,email)  
VALUES(1,"john@example.com")  
ON DUPLICATE KEY UPDATE id=1 or email="john@example.com";
```

```
INSERT IGNORE INTO person(id,email)  
VALUES(2,"bob@example.com")  
ON DUPLICATE KEY UPDATE id=2 or email="bob@example.com";
```

```
INSERT INTO person(id,email)  
VALUES(3,"john@example.com")  
ON DUPLICATE KEY UPDATE id=3 or email="john@example.com";
```

```
SELECT *  
FROM person;
```

Answer to the question no-03

```
CREATE TABLE weather_table
```

```
(  
    id INT ,  
    record_date DATE,  
    temperature INT,  
    PRIMARY KEY(id)  
);
```

```
INSERT INTO weather_table(id,record_date,temperature)  
VALUES(1,"2015-01-01",10);  
INSERT INTO weather_table(id,record_date,temperature)  
VALUES(2,"2015-01-02",25);  
INSERT INTO weather_table(id,record_date,temperature)  
VALUES(3,"2015-01-03",20);  
INSERT INTO weather_table(id,record_date,temperature)
```

```
VALUES(4,"2015-01-04",30);
```

```
SELECT w1.id  
FROM weather_table w1  
JOIN weather_table w2 ON w1.record_date=DATE_ADD(w2.record_date,INTERVAL 1 day)  
WHERE w1.temperature>w2.temperature;
```

Answer to the question no-04

```
SELECT *  
FROM employees  
WHERE salary=  
(  
    SELECT MAX(salary)  
    FROM employees  
    WHERE salary <  
    (  
        SELECT MAX(salary)  
        FROM employees  
    )  
);
```