

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 EXISTS
(
    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
    )
);
```