SQL NOTES

Table relationship

1. No relationship
2. 1 to 1
3. 1 to many
4. Many to many

1 to 1

* Foreign key cannot be duplicate, and room table refer to person taTable

  Description automatically generated

1 to many relationship

Foreign key can be duplicated, like the department table refer to the person table

Table

Description automatically generated

Many to many relationship

3 tables are required to represent the relationship

To link two different table together, 一對多關係

Table

Description automatically generated

**Command**

SELECT \* FROM (NAME); <-COLUMN

Multiple field

Graphical user interface, text, application

Description automatically generated

**CURD Operation**

1. Create
2. Update
3. Read (Query)
4. Delete

**READ (Query)**

Select … From … Where …

Group by … Having

SELECT \* FROM person ORDER BY departmentId DESC, money ASC;

DEPT DESC FIRST, IF SAME NUM, MONEY ASC

Having -> Include/ within range

Graphical user interface, text, application, email

Description automatically generated

**SUB-QUERY**

|  |
| --- |
| SELECT Person FROM |
|  | (SELECT p.name as 'Person', d.name as 'Department' |
|  | FROM person p, department d |
|  | WHERE p.departmentId = d.id) |
|  | WHERE Department = 'IT'; |

Graphical user interface, text, application, email

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**CREATE TABLE COMMAND**