

Review and summarize

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Review and summarize

- ▶ Database is:
 - ▶ 1. Collection of data مجموعة من البيانات
 - ▶ 2. Tools to perform queries (way to communicate with these data)
 - ▶ أدوات لتنفيذ أوامر واستعلامات على هذه البيانات
- ▶ Database Server is:
 - ▶ Application/Program which run continuously (دائما يشتغل) waiting requests.
 - ▶ في انتظار أوامر واستعلامات
 - ▶ Store databases and tables and data
- ▶ Example:
 - ▶ MySQL, Microsoft SQL Server, Oracle, PostgreSQL, SQLite....
- ▶ SQL
 - ▶ Language to communicate with database server

Review and summarize

- ▶ create database dbtest;
- ▶ Show databases;
- ▶ Drop database dblab;
- ▶ Use dbtest;
- ▶ Show tables;

Review and summarize

- ▶ `create database dbtest;`
- ▶ `Show databases;`
- ▶ `Drop database dblab;`
- ▶ `Use dbtest;`
- ▶ `Show tables;`

Review

```
create table books (  
    book_id int primary key auto_increment,  
    title varchar (50) not null,  
    price decimal(10,2) default 10.50,  
    category varchar(20) default 'Programming Books',  
    author varchar(100)  
);
```

Review

```
create table books (  
    book_id int primary key auto_increment,  
    title varchar (50) not null,  
    price decimal(10,2) default 10.50,  
    category varchar(20) default 'Programming Books',  
    author varchar(100)  
);
```


```
desc books;
```

Field	Type	Null	Key	Default	Extra
book_id	int(11)	NO	PRI	(NULL)	auto_increment
title	varchar(50)	NO		(NULL)	
price	decimal(10,2)	YES		10.50	
category	varchar(20)	YES		Programming Books	
author	varchar(100)	YES		(NULL)	

```
create table tasks (  
    task_id int primary key auto_increment,  
    task_content varchar(100),  
    task_level tinyint default 1  
);
```

```
insert into tasks (task_id, task_content, task_level)  
values (1, 'Teach database', 10);
```

```
select * from tasks;
```

 task_id	task_content	task_level
1	Teach database	10

سجل record



```
insert into tasks (task_id, task_content, task_level)
values (5, 'Go to faculty', 5);
```


► Multi-insert

```
insert into tasks (task_id, task_content, task_level)
values (13, 'Go to SuperMarket 1', 4),
(15, 'Take children from school', 10),
(20, 'Eat', 20);
```



```
insert into tasks (task_content, task_level)  
values ('Visit Parents', 30);
```

```
insert into tasks (task_content)  
values ('Visit Mother');
```

The background features abstract, overlapping geometric shapes in various shades of blue, ranging from light sky blue to deep navy blue, creating a modern, layered effect on the right side of the slide.

```
insert into books (title, price, category, author)
values ('Learn SQL', 100.50, 'Prog', 'Dr. Saleh');
```

```
insert into books (title)
values ('Learn Java');
```

```
create table cars (  
  car_id int primary key auto_increment,  
  model varchar (50),  
  price decimal(5,2)  
);
```