

→ new:

- ◆ SELECT
- ◆ FROM
- ◆ DISTINCT
- ◆ ORDER BY (ASC/DESC)
- ◆ WHERE
- ◆ <> <= >=

→ SQL: programming language to select, modify, and insert data in databases

→ database: collections of tables storing different pieces of data

→ rows: table items

→ columns: table item properties

→ `SELECT *` *--universal select all*

users			
ID	name	country	major
1	Sam	England	Biology
2	Remy	France	Physics
3	Luis	France	History
4	Kim	England	Biology

→ `script.sql`

```
SELECT name
FROM users; -- making a query
Sam
Remy
Luis
Kim
```

```
SELECT DISTINCT country -- excludes duplicates
FROM users;
England
France
```

```
SELECT *
FROM users
ORDER BY name; -- alphabetical order
```

users			
ID	name	country	major
3	Luis	France	History
2	Remy	France	Physics
1	Sam	England	Biology
4	Kim	England	Biology

→ (default) ascending sort: `ORDER BY ID ASC`

→ descending sort: `ORDER BY ID DESC`

```
SELECT *
FROM users
WHERE major = 'Biology';
```

users			
ID	name	country	major
1	Sam	England	Biology
4	Kim	England	Biology

→ `<>` inequality operator

PROJECTS

→ APARTMENT HUNT (EASY):

apartments	
name	square_meters
EcoStay	30
The View	100
Sunny Place	53
The Den	80

```
script.sql
SELECT *
FROM apartments
ORDER BY square_meters;
```

apartments	
name	square_meters
EcoStay	30
Sunny Place	53
The Den	80
The View	100

```
SELECT *
FROM apartments
ORDER BY square_meters DESC;
```

apartments	
name	square_meters
The View	100
The Den	80
Sunny Place	53
EcoStay	30

→ FIND ALL TARANTINO (EASY):

movies		
title	year	director
Rushmore	1998	Wes Anderson
Isle of Dogs	2018	Wes Anderson
Pulp Fiction	1994	Tarantino
The Shining	1980	Stanley Kubric
Django	2012	Tarantino

```
script.sql
SELECT title, year
FROM apartments
WHERE director = 'Tarantino';
```

movies	
title	year
Pulp Fiction	1994
Django	2012

→ ACTIVITY BOOKING (EASY):

activity		
description	type	price
kayaking	water	180
skydiving	air	250
scuba diving	water	270
safari	land	150

```
script.sql
SELECT description, price
FROM apartments
WHERE type <> 'water';
```

activity	
description	price

skydiving	250
safari	150

→ PLAN DAY TRIPS (EASY):

day_trip	
destination	minutes_away
Ostia Antica	25
Naples	75
Tivoli	50
Florence	90

```
script.sql
SELECT destination
FROM day_trip
WHERE minutes_away <= 60;
```

day_trip	
destination	
Ostia Antica	
Tivoli	