

# DATA QUERY LANGUAGE

## Structured Query Language (SQL)

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## 1 Data Query Language (DQL)



# Outline

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# Data Query Language (DQL)

**DQL** (*Data Query Language*) is a **subset** of **SQL** that is used to **query** and **retrieve data** from a **database**.

## PostgreSQL Example

```
SELECT * FROM myTable ;
```

## MySQL Example

```
SELECT * FROM myTable ;
```



# Data Query Language (DQL)

**DQL** statements are used to **query** and **retrieve data** from a **database**.

## PostgreSQL Example

```
SELECT * FROM myTable  
WHERE name = 'John';
```

## MySQL Example

```
SELECT * FROM myTable  
WHERE name = 'John';
```



# Data Query Language (DQL)

**DQL** statements are used to **query** and **retrieve data** from a **database**.

## PostgreSQL Example

```
SELECT * FROM myTable  
WHERE name LIKE 'J%';
```

## MySQL Example

```
SELECT * FROM myTable  
WHERE name LIKE 'J%';
```



# Data Query Language (DQL)

**DQL** statements are used to **query** and **retrieve data** from a **database**.

## PostgreSQL Example

```
SELECT name AS full_name  
FROM myTable;
```

## MySQL Example

```
SELECT name AS full_name  
FROM myTable;
```



# Data Query Language (DQL)

**DQL** statements are used to **query** and **retrieve data** from a **database**.

## PostgreSQL Example

```
SELECT COUNT(*)  
FROM myTable;
```

## MySQL Example

```
SELECT COUNT(*)  
FROM myTable;
```





# Data Query Language (DQL)

**DQL** statements are used to **query** and **retrieve data** from a **database**.

## PostgreSQL Example

```
SELECT SUM(salary)
FROM myTable;
```

## MySQL Example

```
SELECT SUM(salary)
FROM myTable;
```



# Data Query Language (DQL)

**DQL** statements are used to **query** and **retrieve data** from a **database**.

## PostgreSQL Example

```
SELECT AVG( salary ), MAX( salary ), MIN( salary )  
FROM myTable;
```

## MySQL Example

```
SELECT AVG( salary ), MAX( salary ), MIN( salary )  
FROM myTable;
```



# Data Query Language (DQL)

**DQL** statements are used to **query** and **retrieve data** from a **database**.

## PostgreSQL Example

```
SELECT * FROM myTable  
LIMIT 10;
```

## MySQL Example

```
SELECT * FROM myTable  
LIMIT 10;
```



# Data Query Language (DQL)

**DQL** statements are used to **query** and **retrieve data** from a **database**.

## PostgreSQL Example

```
SELECT * FROM myTable  
ORDER BY name ASC;
```

## MySQL Example

```
SELECT * FROM myTable  
ORDER BY name ASC;
```



# Data Query Language (DQL)

**DQL** statements are used to **query** and **retrieve data** from a **database**.

## PostgreSQL Example

```
SELECT country , COUNT(*)  
FROM myTable GROUP BY country ;
```

## MySQL Example

```
SELECT country , COUNT(*)  
FROM myTable GROUP BY country ;
```



# Data Query Language (DQL)

## PostgreSQL Example

```
SELECT myTable.name, myOtherTable.email  
FROM myTable  
JOIN myOtherTable ON myTable.id = myOtherTable.id;
```

## MySQL Example

```
SELECT myTable.name, myOtherTable.email  
FROM myTable  
JOIN myOtherTable ON myTable.id = myOtherTable.id;
```



# Outline

## 1 Data Query Language (DQL)



# Thanks!

## Questions?



Repo: [github.com/engandres/ud-public/courses/databases-foundations](https://github.com/engandres/ud-public/courses/databases-foundations)

