

A slide titled "Metadata" with a subtitle "Database Connectivity and Access". The slide has a blue header bar and a footer bar. The text "© 2020 Zilora" is at the bottom.

1

---

---

---

---

---

---

---

A slide titled "Metadata" with a subtitle "Database Connectivity and Access". The slide has a blue header bar and a footer bar. The text "© 2020 Zilora" is at the bottom.

2

---

---

---

---

---

---

---

A slide titled "Result Metadata" with a subtitle "Database Connectivity and Access". The slide has a blue header bar and a footer bar. The text "© 2020 Zilora" is at the bottom.

3

---

---

---

---

---

---

---

## Exploration of Metadata APIs

- ▶ Java
- ▶ C#
- ▶ PHP



© 2020 Zilora

4

---

---

---

---

---

---

---

## Java ResultSetMetadata API

```
ResultSet rs = stmt.executeQuery("SELECT...");  
ResultSetMetaData rsmd = rs.getMetaData();
```

- ▶ `int numCols = rsmd.getColumnCount();`
  - ▶ Returns the number of columns
- ▶ `String name = rsmd.getColumnName(i);`
  - ▶ Name of column i
- ▶ `String tblName = rsmd.getTableName(i);`
  - ▶ Gets the column's table name



© 2020 Zilora

5

---

---

---

---

---

---

---

## C# Metadata API

```
MySqlDataReader rdr = cmd.ExecuteReader();
```

```
int numCols = rdr.FieldCount;  
String name = rdr.GetName(i);
```



© 2020 Zilora

6

---

---

---

---

---

---

---

## PHP Metadata API

```
$rs = $conn->query($sql);

$numCols = $rs->columnCount();

$columns= $rs->fetch(PDO::FETCH_ASSOC);
foreach($columns as $field_name=>$value) {
    $name = $field_name;
}
```



© 2020 Zilora

---

---

---

---

---

---

---