## **JDBC**

\* specification to connect any RDBMS form JDBC specs given or set of interfaces & helper classes: Java appln. Java say Tara \* interfaces: \* closses: Dolver abbju (1) Dolver RDBMs (1) Driver whicholde JDBC Converts Java reg to db understandable 2) Connection Date, form and PB response to Tova understandable farm. (3) Statement Blob, I prepared Statement Java 2 allable Statement (1) Class 1 Toble @ Raw Column @ Objects 4 Reutset 3 59L Classes isoblementing JDBC interfaces. JDBC driver Type I doing Type III dreiver Type II Driver (Z) Type I driver Doner - Mode Doiver CICHT Java JDBC ZODBC

## JDBC programming steps

```
1) add jabe driver jan into project classpath.

Project perpenties > Dava Build Path -> Libraries - Classpath -> Add external jan + select

Johe driver jan (downloaded) + OK.
     Classifer Name ("pkg. Dever Class Marok");
                                                                    if user input is concatenated to
3) (rede jabe connection (wing Driver Monager).
                                                                    591 guery, the malicious content
     Urs = "jdbc: dborome: ...";
                                                                    by user may cause unexpected
     con = Dovermanager. get Connection (un), user, Passud);
                                                                    results damage -> SQL Injection
 (4) create jdbc statement.
                                                                    Avoid wing Statement (ie.
     Street = con creete Statement ();
                                                                    Syl queries with String Concet).
(5) execute Sql query (using start) & process result.
                                                      TS = Start execute Bueny (" select 59 1");
    (ut = 2 tent 6x6cmfe Obgafe ( sou-reflect 22/2))
                                                      while (~3.00+()) }
                                                         val1= = 2.9 et Int ("col1");
                                                         val2= 25. get Stars ("(0/211);
                                                          vol3 = ES. get Double ("Co13");
 6 close stant & connection,
                                                          val 4= 22. 30/ Date (10091411);
     Stat close(),
     (con · close();
                                                      rs.close();
```



## JDBC programming steps

```
1) add jabe driver jan into project class path.
    Project perpenties > Java Build Path -> Libraries - Classpath -> Add external par + select
                                                   John døiver jar (dounloaded) + OK,
2 load & register jake doiver class
    Classifer Name ("pkg. Dever Class Maror");
3) (rede jabe connection (wing Driver Monager).
    Urs = "jdbc: dborne: ...";
    can = Doirermanager. get Connection (un), user, Passud);
(4) create jaba statement.
     Sal = prefert or ear refert 2dy with bassus in: 1/bassuspensed drend
     Street = con prepare Statement (Sql);
(5) execute Sql query (using start) & process result.
    Stant. set Int (1, val1); ) set value of each
    Street ring (5 ref3): Shows w (3)
                                              ES = Start execute Bueny (X);
                                              while (~3.00x+()) }
    (e) = Street 6x6cmfe Obgate (X)
                                                 rays = 20. 36+ 24 ex ( (1511);
6 close stront & connection,
    Stmt close();
    (can · close();
                                              rs.close();
```

