


Lec-2

* Abs**t**raction → DBMS
① → car driving

② Tally - Business soft

⇒ DBMS

z

Main 1 ⇒

Amazon

Customer

- Name

- Add

- Ph no.

- Billing | delivery

- Age

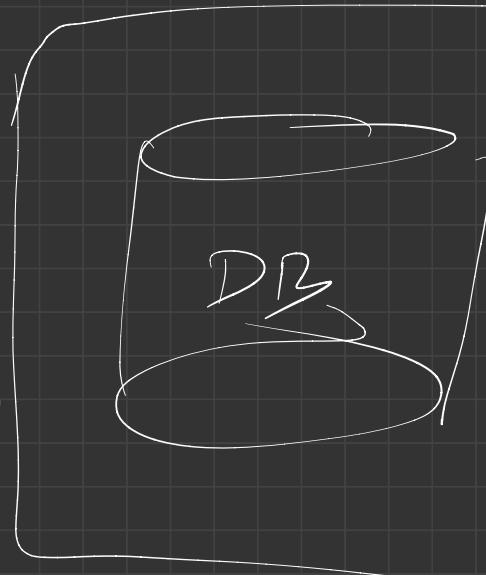
- CC

- DL

- VP

Product bought

-



PBMS

Logistics

z

Customer
service
center

Logistics → view schema.

[Name | add.] ph no

Custom
service.
dept

→ [Name | address | ph no | Product
bought]

* Conceptual Level

Physical Level

Name, phno., addres, Batchn,
Name, ph no. addm, Bch
;

file.

Course →

Course ID	Name	Duration
-----------	------	----------

Logical Level

Student

Name
Ph no
Address
Batch no.

Student

①	Name	Ph no.	addr	Batch
	Xyz	8	m	2019
②	Lakshy	a	m	m
3				Course ID

* Instance of DB

Student
⇒

	Name	ph	address	Batch	Stn-ID
①	XYZ	XX	XX	XX	01
②	ABC	XX	XX	XX	02
③	~	~	~	~	03

12:00 AM → DB ?? 2 rows, 2 data points

Next 12:00 AM → 3 students.

DB Schema (logical schema)

① attributes of table.

② consistency constraints. (Primary key)

③ Relationships.

* Logical Level

* Data Model.

* DBMS → we → Language.

→ Schema define → Student → Stu-ID, Name,
add, ph. --



DDL

Insert, (Delete), update,
Retrieval.

Stu-ID	Name	add,	Ph
1			
2			
3			

* Data Mani. Langnge

DDL \rightarrow Create table students (stu-ID int,
Name varchar(50),
add varchar(90),
ph. int
);

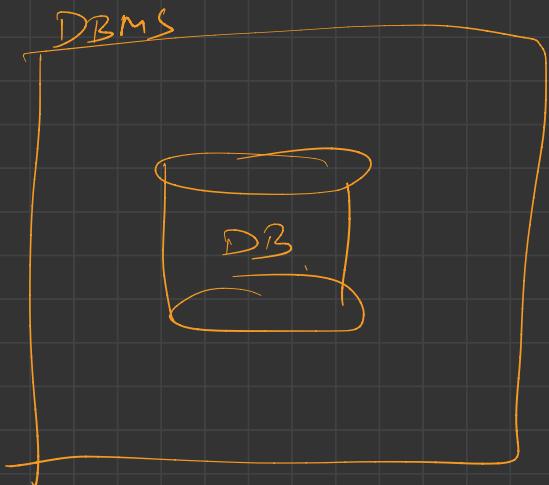
DML \rightarrow select * from students;

* Now app access DB?

App → JavaScript, C/C++

function lastOrderDetails{

JDBC | ODBC
↓ ↓
Java C/C++



}

Interface



CandidateDAOImpl.java

Source master e9b8380 Full commit

```
8 import org.slf4j.Logger;
9 import org.slf4j.LoggerFactory;
10 import org.springframework.dao.DataAccessException;
11 import org.springframework.dao.DataIntegrityViolationException;
12 import org.springframework.dao.IncorrectResultSizeDataAccessException;
13 import org.springframework.jdbc.core.BeanPropertyRowMapper;
14 import org.springframework.jdbc.core.namedparam.MapSqlParameterSource;
15 import org.springframework.jdbc.core.namedparam.SqlParameterSource;
16 import org.springframework.jdbc.support.GeneratedKeyHolder;
17 import org.springframework.jdbc.support.KeyHolder;
18
19 import java.util.List;
20
21 public class CandidateDAOImpl extends AbstractDAO implements CandidateDAO {
22     private static final Logger logger = LoggerFactory.getLogger(CandidateDAOImpl.class);
23
24     private static final String SQL_TALENT_PARTNER_ANALYTICS = "SELECT TALENT_PARTNER, count(*) as total, sum(case when status = 'SELECTED' then 1 else 0 end)
25     public Integer add(CandidateQO candidateQO) {
26         try {
27             MapSqlParameterSource namedParameters = new MapSqlParameterSource();
28             namedParameters.addValue("name", candidateQO.getName());
29             namedParameters.addValue("phone", candidateQO.getPhone());
30             namedParameters.addValue("emailId", candidateQO.getEmailId());
31             namedParameters.addValue("driveId", candidateQO.getDriveId());
32             namedParameters.addValue("resume", candidateQO.getResumePath());
33             namedParameters.addValue("status", candidateQO.getStatus());
34             namedParameters.addValue("createduserId", candidateQO.getCreatedUserId());
35             KeyHolder keyHolder = new GeneratedKeyHolder();
36             int affectedRowCount = this.namedParameterJdbcTemplate.update(
37                 "INSERT INTO CANDIDATE "
38                     + "(NAME, PHONE, EMAIL_ID, RESUME_PATH, DRIVE_ID, STATUS, CREATED_USER_ID) " + "VALUES "
39                     + "(:name, :phone, :emailId, :resume, :driveId, :status, :createduserId)",
40                     namedParameters, keyHolder);
41             if (affectedRowCount == 1) {
42                 return keyHolder.getKey().intValue();
43             }
44         } catch (Exception e) {
45             logger.error("Error occurred while adding candidate: " + e.getMessage());
46             throw e;
47         }
48     }
49 }
```

Pull requests Check out ...

Last updated
2020-07-26File type
Java

Lines 144 Size 7.03 KB

0 builds

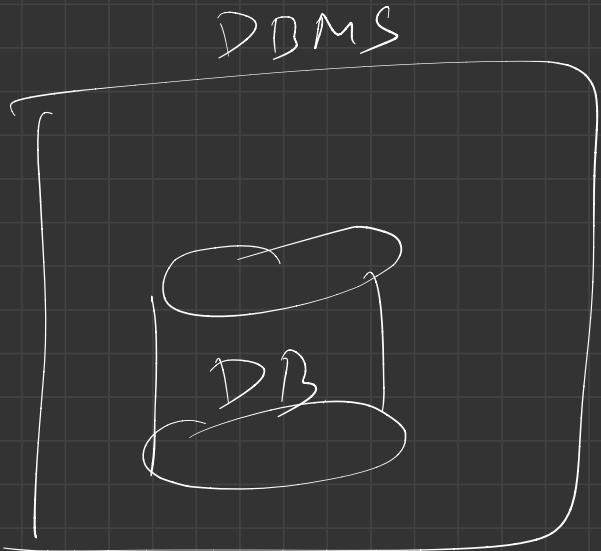


It looks like you haven't configured a build tool yet. You can use Bitbucket Pipelines to build, test and deploy your code.

Your existing plan already includes build minutes.

Set up a pipeline

Give feedback



Control → - data ??
— Data access API's

A simple stick figure stands next to handwritten text. The text reads "Control → - data ??" followed by a horizontal line and "- Data access API's". The entire text is underlined.

* DBMS Application architecture

client machine
=

① T1 archi ⇒

e.g. (1) sql. learn.

end-user → PC

DBMS Server → PC

↓
 $\text{DB} \rightarrow \text{PC}$ (files)

Server machine
=



②

T2 >

