

| Resource | | |
|------------------------|--------------|------|
| <u>resource_name</u> | VARCHAR(500) | <pk> |
| <u>resource_source</u> | VARCHAR(500) | <pk> |
| label_number | INT4 | <fk> |
| resource_content | TEXT | |
| rating | INT4 | |

| Label | | |
|---------------------|--------------|------|
| <u>label_number</u> | INT4 | <pk> |
| label_name | VARCHAR(100) | |

| Test | | |
|------------------|--------------|------|
| <u>test_name</u> | VARCHAR(500) | <pk> |
| input_data | TEXT | |
| expected_result | TEXT | |
| output_data | TEXT | |

| Material | | |
|------------------------|--------------|------|
| <u>material_name</u> | VARCHAR(500) | <pk> |
| <u>material_author</u> | VARCHAR(500) | <pk> |
| label_number | INT4 | <fk> |
| material_content | TEXT | |

| Subjects have materials | | |
|-------------------------|--------------|----------|
| <u>subject_name</u> | VARCHAR(100) | <pk,fk1> |
| <u>material_name</u> | VARCHAR(500) | <pk,fk2> |
| <u>material_author</u> | VARCHAR(500) | <pk,fk2> |

| Subject | | |
|---------------------|--------------|------|
| <u>subject_name</u> | VARCHAR(100) | <pk> |

| Laboratory have tests | | |
|-------------------------|--------------|----------|
| <u>test_name</u> | VARCHAR(500) | <pk,fk1> |
| <u>laboratory_theme</u> | VARCHAR(500) | <pk,fk2> |

| Laboratory | | |
|-------------------------|--------------|------|
| <u>laboratory_theme</u> | VARCHAR(500) | <pk> |
| <u>subject_name</u> | VARCHAR(100) | <fk> |
| laboratory_goal | VARCHAR(500) | |
| laboratory_number | INT4 | |

| Implementation | | |
|-------------------------|--------------|----------|
| <u>attempt</u> | INT4 | <pk> |
| <u>record_book</u> | VARCHAR(6) | <pk,fk1> |
| <u>group_year</u> | INT4 | <pk,fk1> |
| <u>laboratory_theme</u> | VARCHAR(500) | <pk,fk2> |
| mark | INT4 | |
| implementation_content | TEXT | |
| test_output | TEXT | |
| operator_sequence | TEXT | |
| plagiarism | INT4 | |

| Task | | |
|-------------------------|--------------|---------|
| <u>variant</u> | INT4 | <pk> |
| <u>laboratory_theme</u> | VARCHAR(500) | <pk,fk> |
| laboratory_task | TEXT | |

| Groups have subjects | | |
|----------------------|--------------|----------|
| <u>subject_name</u> | VARCHAR(100) | <pk,fk1> |
| <u>group_name</u> | VARCHAR(10) | <pk,fk2> |
| <u>group_year</u> | INT4 | <pk,fk2> |

| Student | | |
|--------------------|--------------|---------|
| <u>record_book</u> | VARCHAR(6) | <pk> |
| <u>group_year</u> | INT4 | <pk,fk> |
| <u>group_name</u> | VARCHAR(10) | <fk> |
| student_name | VARCHAR(500) | |
| student_email | VARCHAR(200) | |
| student_phone | VARCHAR(50) | |

| Group | | |
|-------------------|-------------|------|
| <u>group_name</u> | VARCHAR(10) | <pk> |
| <u>group_year</u> | INT4 | <pk> |