

Import from database



Import from database
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From existing databases can be imported data about:

- locations,
- lecturers,
- programs,
- subject areas,
- courses and
- students

Create ODBC data source over which will Wise Timetable connect to database before importing from database.

1. Settings

All settings for importing from database are set in `dbsettings.ini`.

Example:

```
[connection]
import_db_conn_str = DSN=Urnik;Uid=root;Pwd=password
export_db_conn_str = DSN=Urnik;Uid=root;Pwd=mmm

[sql]
import_rooms = select r.Room_Id, r.Name, r.Seats_Num from Room r
import_tutors = select t.Tutor_Id, t.First_Name, t.Last_Name, NULL, NULL, NULL
from Tutor t order by t.Last_Name, t.First_Name
import_programs = select program_id, name, code, years from Program
import_branches =
import_courses =
import_students =

[logging]
use_logger = 1

[performance]
commit_step=100
```

Description of parameters which are used for import:

- `import_db_conn_str` (here write connection string for connection to database)
- `use_logger` (if we want to log sql command 1, otherwise 0)
- parameters from group `[sql]` contain sql states

2. Import locations

Imported are following data:

- Location ID (int, null)
- Location name (char, not null)
- Number of seats (int, not null)

Data example:

Id	Location name	Number of seats
1	R - 01	282
2	R - 02	80
3	R - 03	80
4	R - 04	36

Example of sql state:

```
select NULL, r.Name, r.Seats_Num from Room r
```

3. Import lecturers

Imported are following data:

- Lecturer's ID (int, null)
- Name (char, not null)
- Surname (char, not null)
- Code (char, null)
- Web pages code (char, null)
- Notes (char, null)

Data example:

Id	Name	Surname	Code	Web pages code	Notes
1	Nelly	Scott	SN		email: someone@somewhere.com
2	Tom	Rogers			
3	Nicole	Meyers	MN		

Example of sql state:

```
select t.Tutor_Id, t.First_Name, t.Last_Name, NULL, NULL, NULL from Tutor t order by t.Last_Name, t.First_Name
```

4. Import programs

Imported are following data:

- Program ID (int,null)
- Program name (char, not null)
- Program code (char, null)
- Year of study (int, null)

Data example:

Id	Program name	Code	Year
1	Business sciences	BS	4
2	Economics		4
3	Business administration		4

Example of sql state:

```
select program_id, name, code, years from Program
```

5. Import subject areas

Import locations:

- Subject area ID (int null)
- Program name (char, not null)
- Subject area name (char, not null)
- Subject area code (char, null)

Data example:

Id	Program name	Subject area name	Code
1	Business sciences	Management	MNG
7	Economics	Economic history	EH
10	Business administration	Public sector administration	PSA

Example of sql state:

```
SELECT DISTINCT NULL, p.Name, b.Name, NULL FROM Branch b, Program p WHERE
b.Program_Id = p.Program_Id
```

6. Import courses

Imported are following data:

- Course ID (int, null)
- Program name (char, not null)
- Subject area name (char, not null)
- Year (int, not null)
- Course name (char, not null)
- Course type (char, not null) (e.g. tutorial, lectures)
- Course code (char, null)
- Lecturer's name (char, not null)
- Lecturer's surname (char, not null)
- First week of execution (int, null) (default = 1)
- Last week of execution (int, null) (default = 52)
- No. of hours per week (int, null) (default = 1)

Data example:

Id	Program name	Subject area name	Year	Course name
7	Business sciences	Management	1	Introduction to Business
8	Business sciences	Management	1	Introduction to Organization
8	Business sciences	Management	1	International Business
10	Business sciences	Management	1	Business Communication

(continuation):

Id	Course type	Code	Lecturer's name	Lecturer's surname	First week	Last week	Hours per week
7	lecture		Peter	Smith	1	15	3
8	lecture		Daryl	Miller	1	15	3
8	tutorial		Jamie	Cornelius	1	15	4
10	lecture		Jack	Black	1	15	2

Example of sql state:

```

SELECT
  c.Course_Id, p.Name, b.Name, b.Year, c.Name, ct.Name, c.Code,
  tut.First_Name, tut.Last_Name, 1, 15, 1
FROM
  Branch b,
  Course c,
  Course_Branch cb,
  CoursePart cp,
  CourseType ct,
  Program p,
  Turn t,
  Turn_Tutor ttut,
  Tutor tut
WHERE
  cb.Branch_Id = b.Branch_Id AND
  cb.Course_Id = c.Course_Id AND
  cp.Course_Id = c.Course_Id AND
  ct.CourseType_Id = cp.CourseType_Id AND
  p.Program_Id = b.Program_Id AND
  t.CoursePart_Id = cp.CoursePart_Id AND
  ttut.Turn_Id = t.Turn_Id AND
  tut.Tutor_Id = ttut.Tutor_Id
    
```

7. Import students

Imported are following data:

- ID (int null)
- Program name (char, not null)
- Subject area name (char, not null)
- Year (int, not null)
- Student's name (char, not null)
- Student's surname (char, not null)
- Student number (int, null)

Data example:

Id	Program name	Subject area name	Year	Name	Surname	Student number
1	Business sciences	Management	1	ABBIE	AMMONS	19375211
2	Business sciences	Management	1	KAYLYN	AUMAN	19375212
3	Business sciences	Management	1	KAROLYN	BAILEY	19375213
4	Business sciences	Management	1	PHYLLIDA	BAKER	19375214

Example of sql state:

```
SELECT
    s.Student_Id, p.Name, b.Name, b.Year, s.First_Name,
    s.Last_Name, s.Student_Num
FROM
    Branch b,
    Program p,
    Student s
WHERE
    p.Program_Id = b.Program_Id AND
    s.Branch_Code = b.Code AND
    s.Year = b.Year
```