

# Laboratorium 1 - Karol Wrona

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## 1. Tabele

```
create table person
(
  person_id int generated always as identity not null
, firstname varchar2(50)
, lastname varchar2(50)
, constraint person_pk primary key
(
  person_id
)
enable
);
```

```
create table trip
(
  trip_id int generated always as identity not null
, name varchar2(100)
, country varchar2(50)
, trip_date date
, max_no_places int
, constraint trip_pk primary key
(
  trip_id
)
enable
);
```

```
create table reservation
(
  reservation_id int generated always as identity not null
, trip_id int
, person_id int
, status char(1)
, no_places int
, constraint reservation_pk primary key
(
  reservation_id
)
enable
);
alter table reservation
add constraint reservation_fk1 foreign key
(
```

```
    person_id
  )
  references person
(
  person_id
)
enable;
alter table reservation
add constraint reservation_fk2 foreign key
(
  trip_id
)
references trip
(
  trip_id
)
enable;
alter table reservation
add constraint reservation_chk1 check
(status in ('n','p','c'))
enable;
```

## Tabela log

```
create table log
(
  log_id int generated always as identity not null
, reservation_id int
, log_date date
, status char
, no_places int
, info varchar2(50)
, constraint log_pk primary key
(
  log_id
)
enable
);
alter table log
add constraint log_fk1 foreign key
(
  reservation_id
)
references RESERVATION
(
  reservation_id
)
enable;
```

## 2. Przykładowe dane

```
insert into person (firstname, lastname)
values('adam', 'kowalski');
insert into person (firstname, lastname)
values('jan', 'nowak');
select * from person;
insert into trip (name, country, trip_date, max_no_places)
values ('wycieczka do paryza', 'francja', to_date('2021-09-03', 'yyyy-mm-dd'), 3);
insert into trip (name, country, trip_date, max_no_places)
values ('wycieczka do krakowa', 'polska', to_date('2022-12-05', 'yyyy-mm-dd'), 2);
select * from trip;
insert into reservation(trip_id, person_id, no_places, status)
values (1,1,1,'n');
insert into reservation(trip_id, person_id, no_places, status)
values (2,1,1,'p');
```

### 3. Widoki

a)

```
create view reservations_view as
select t.country, t.trip_date, t.name,
       p.firstname, p.lastname, r.reservation_id,
       r.no_places, r.status
from reservation r
join trip t on r.trip_id = t.trip_id
join person p on r.person_id = p.person_id;
```

b) Korzystam z pomocniczej funkcji *available\_places* [Link](#)

```
create view trips_view as
select t.country, t.trip_date, t.name,
       t.max_no_places, available_places(t.trip_id) as no_available_places
from trip t
join reservation r on r.reservation_id = t.trip_id;
```