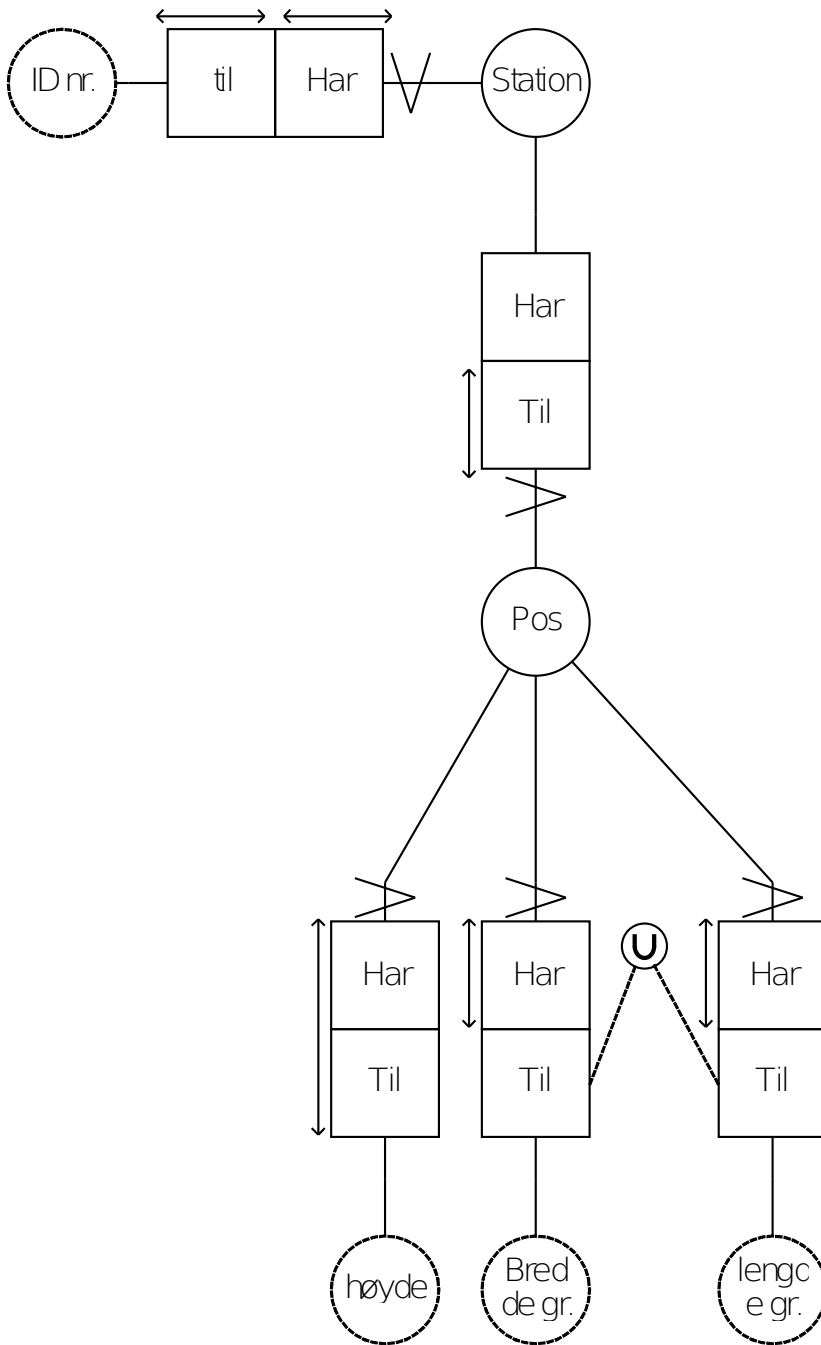
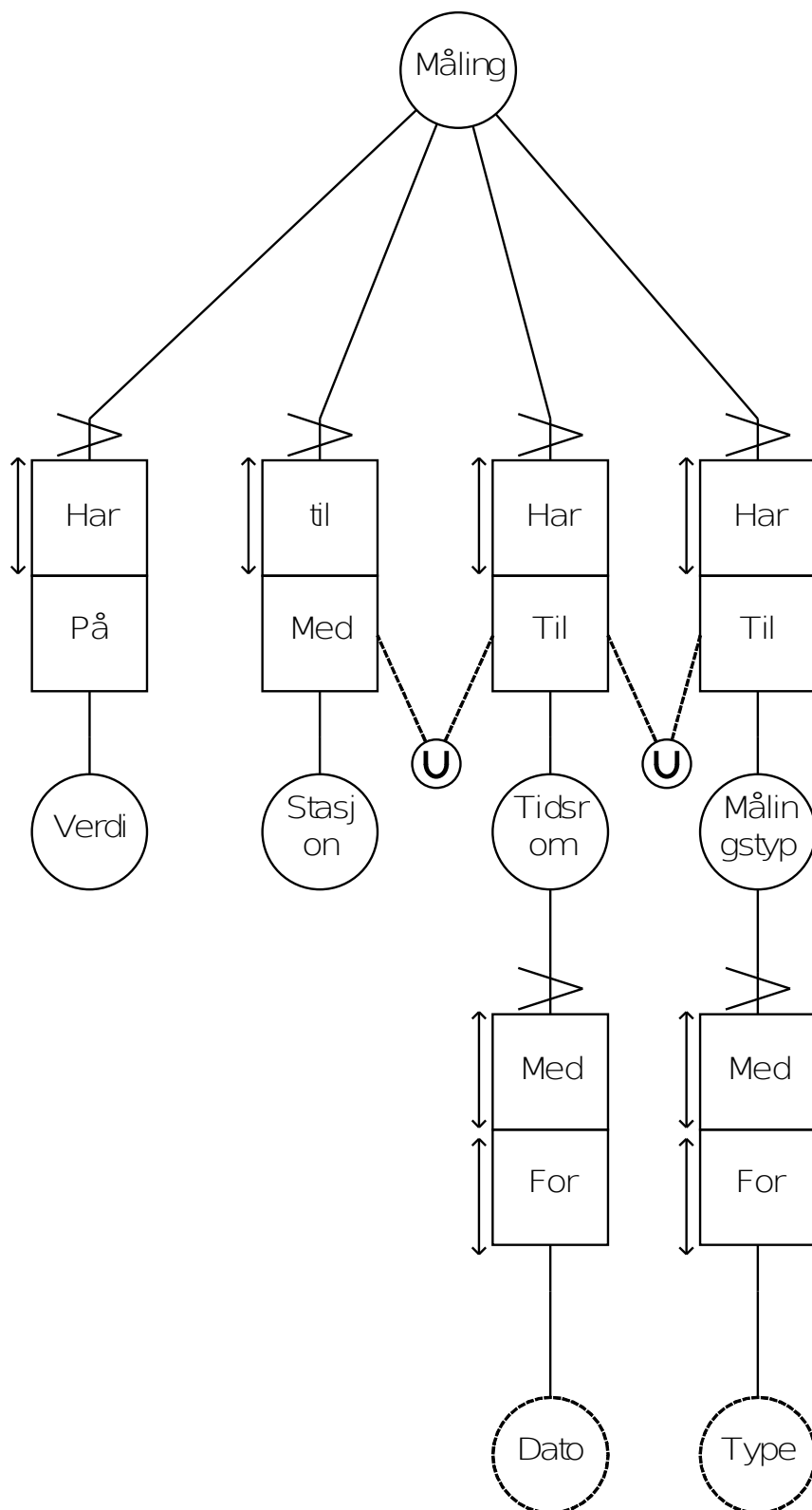


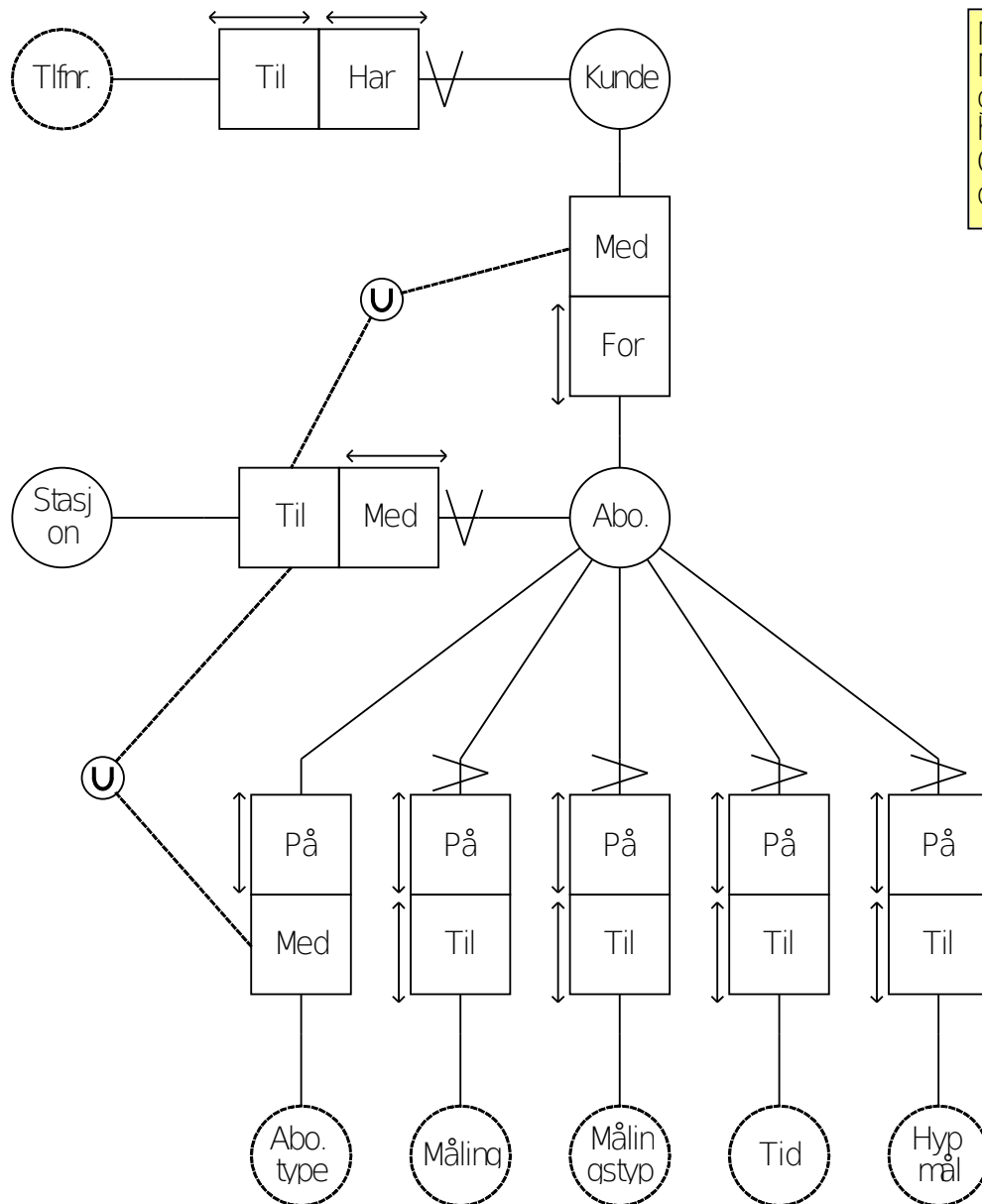
Obligatorisk oppgave 2
Nicklas M. Hamang
INF1300
H2012
Gruppe 5.
Nicklash



Nicklas M. Hamang
Nicklash
gruppe 5
h2012
Oblig 2.
oppg 1.

Nicklas M. Hamang
Nicklash
gruppe 5
h2012
Oblig 2.
oppg 2.





Nicklas M. Hamang
 Nicklash
 gruppe 5
 h2012
 Oblig 2.
 oppg 3.

Oppgave 4 (ikke testet):

/******

* PostgreSQL Database Description File for oblig2

* Generated by stORM © Norsync AS 2008

* Generation Date is 2012/10/2

* Model Number is 1

* Version Checksum is 32624

*****/

/******

* Table Definitions

*****/

CREATE TABLE Abo# (

Tid_Til VARCHAR(20) NOT NULL,
Hyp_maal_Til VARCHAR(20) NOT NULL,
Maaling##_Til VARCHAR(20) NOT NULL,
Maalingstype##_Til VARCHAR(20) NOT NULL,
Tlfnr#_Med VARCHAR(20),
ID_nr#_Til VARCHAR(20) NOT NULL,
Abo#_type_Med VARCHAR(20)

);

CREATE TABLE Kunde (

Tlfnr#_Til VARCHAR(20) NOT NULL

);

CREATE TABLE Maaling (

ID_nr#_Med VARCHAR(20) NOT NULL,
Dato_Til VARCHAR(20) NOT NULL,

```
    Type_Til          VARCHAR(20) NOT NULL,  
    Nr#_Paa           VARCHAR(20) NOT NULL  
);
```

```
CREATE TABLE Maalingstype (  
    Type_For          VARCHAR(20) NOT NULL  
);
```

```
CREATE TABLE Pos (  
    lengde_gr#_Til    VARCHAR(20) NOT NULL,  
    Bredde_gr#_Til    VARCHAR(20) NOT NULL,  
    ID_nr#_Har        VARCHAR(20) NOT NULL  
);
```

```
CREATE TABLE Pos_hoeyde (  
    lengde_gr#_Har    VARCHAR(20) NOT NULL,  
    Bredde_gr#_Har    VARCHAR(20) NOT NULL,  
    hoeyde_Til        VARCHAR(20) NOT NULL  
);
```

```
CREATE TABLE Stasjon (  
    ID_nr#_til        VARCHAR(20) NOT NULL  
);
```

```
CREATE TABLE Tidsrom (  
    Dato_For          VARCHAR(20) NOT NULL  
);
```

```
CREATE TABLE Verdi (  
    Nr#_Paa           VARCHAR(20) NOT NULL  
);
```

/******

* SERIAL columns

*****/

/******

* Primary and Unique Key Definitions

*****/

ALTER TABLE Abo# ADD PRIMARY KEY (Tid_Til);

ALTER TABLE Abo# ADD UNIQUE (Hyp_maal_Til);

ALTER TABLE Abo# ADD UNIQUE (Maaling##_Til);

ALTER TABLE Abo# ADD UNIQUE (Maalingstype##_Til);

ALTER TABLE Abo# ADD UNIQUE (Tlfnr#_Med,ID_nr#_Til);

ALTER TABLE Abo# ADD UNIQUE (ID_nr#_Til,Abo#_type_Med);

ALTER TABLE Kunde ADD PRIMARY KEY (Tlfnr#_Til);

ALTER TABLE Maaling ADD PRIMARY KEY (ID_nr#_Med,Dato_Til);

ALTER TABLE Maaling ADD UNIQUE (Dato_Til,Type_Til);

ALTER TABLE Maalingstype ADD PRIMARY KEY (Type_For);

ALTER TABLE Pos ADD PRIMARY KEY (lengde_gr#_Til,Bredde_gr#_Til);

ALTER TABLE Pos_hoeyde ADD PRIMARY KEY (lengde_gr#_Har,Bredde_gr#_Har,hoeyde_Til);

ALTER TABLE Stasjon ADD PRIMARY KEY (ID_nr#_til);

ALTER TABLE Tidsrom ADD PRIMARY KEY (Dato_For);

ALTER TABLE Verdi ADD PRIMARY KEY (Nr#_Paa);

/******

* Foreign Key Constraints

*****/

ALTER TABLE Abo# ADD CONSTRAINT Kunde_Abo#
FOREIGN KEY (Tlfnr#_Med) REFERENCES Kunde (Tlfnr#_Til);

ALTER TABLE Abo# ADD CONSTRAINT Stasjon_Abo#
FOREIGN KEY (ID_nr#_Til) REFERENCES Stasjon (ID_nr#_til);

ALTER TABLE Maaling ADD CONSTRAINT Stasjon_Maaling
FOREIGN KEY (ID_nr#_Med) REFERENCES Stasjon (ID_nr#_til);

ALTER TABLE Maaling ADD CONSTRAINT Tidsrom_Maaling
FOREIGN KEY (Dato_Til) REFERENCES Tidsrom (Dato_For);

ALTER TABLE Maaling ADD CONSTRAINT Maalingstype_Maaling
FOREIGN KEY (Type_Til) REFERENCES Maalingstype (Type_For);

ALTER TABLE Maaling ADD CONSTRAINT Verdi_Maaling

FOREIGN KEY (Nr#_Paa) REFERENCES Verdi (Nr#_Paa);

ALTER TABLE Pos ADD CONSTRAINT Stasjon_Pos

FOREIGN KEY (ID_nr#_Har) REFERENCES Stasjon (ID_nr#_til);

ALTER TABLE Pos_hoeyde ADD CONSTRAINT Pos_Pos_hoeyde

FOREIGN KEY (lengde_gr#_Har,Bredde_gr#_Har) REFERENCES Pos
(lengde_gr#_Til,Bredde_gr#_Til);

/*****

* Index Definitions

*****/

CREATE INDEX Kunde_Abo# ON Abo# (Tlfnr#_Med);

CREATE INDEX Stasjon_Abo# ON Abo# (ID_nr#_Til);

CREATE INDEX Stasjon_Maaling ON Maaling (ID_nr#_Med);

CREATE INDEX Tidsrom_Maaling ON Maaling (Dato_Til);

CREATE INDEX Maalingstype_Maaling ON Maaling (Type_Til);

CREATE INDEX Verdi_Maaling ON Maaling (Nr#_Paa);

CREATE INDEX Stasjon_Pos ON Pos (ID_nr#_Har);

CREATE INDEX Pos_Pos_hoeyde ON Pos_hoeyde (lengde_gr#_Har,Bredde_gr#_Har);

Opppg 5.

Spørsmål 1:

```
select f.filmid, prodyear
from film f
where
f.prodyear <= '1890';
```

svar 1:

```
f.prodyear <= '1890';
 filmid | prodyear
-----+-----
  760577 |    1890
  760593 |    1890
  760609 |    1890
 3168197 |    1889
 5891146 |    1888
 7026426 |    1888
(6 rows)
```

Spørsmål 2:

```
select f.title, f.prodyear, g.genre
from film f, filmgenre g
where
f.prodyear = '1892' and
f.filmid = g.filmid;
```

Svar 2:

title	prodyear	genre
Boxing	1892	Short
Boxing	1892	Sport
Pauvre Pierrot	1892	Animation
Pauvre Pierrot	1892	Comedy
Pauvre Pierrot	1892	Romance
Pauvre Pierrot	1892	Short
Un bon bock	1892	Animation
Un bon bock	1892	Short
Fencing	1892	Short
Fencing	1892	Sport
Hand Shake, A	1892	Short
Man on Parallel Bars	1892	Short
Man on Parallel Bars	1892	Sport
Wrestling	1892	Short
Wrestling	1892	Sport
Prince de Galles, Le	1892	Documentary
Prince de Galles, Le	1892	Short
Clown et ses chiens, Le	1892	Animation
Clown et ses chiens, Le	1892	Short

(19 rows)

Spørsmål 3:

```
select f.title
from film f, person p, filmparticipation x
where
p.lastname = 'Coppola' and
p.firstname = 'Francis Ford' and
x.parttype = 'director' and
x.personid = p.personid and
x.filmid = f.filmid;
```

Svar 3:

```
          title
-----
Apocalypse Now
Bellboy and the Playgirls, The
Captain EO
Conversation, The
Cotton Club, The
Dementia 13
Dracula
Finian's Rainbow
Gardens of Stone
Godfather Trilogy: 1901-1980, The
Godfather, The
Godfather: Part II, The
Godfather: Part III, The
Jack
Making 'Bram Stoker's Dracula'
Nebo zovyot
New York Stories
One from the Heart
Outsiders, The
Peggy Sue Got Married
Rain People, The
Rainmaker, The
Rumble Fish
Supernova
Terror, The
Tetro
Tonight for Sure
Tucker: The Man and His Dream
You're a Big Boy Now
Youth Without Youth
(30 rows)
```