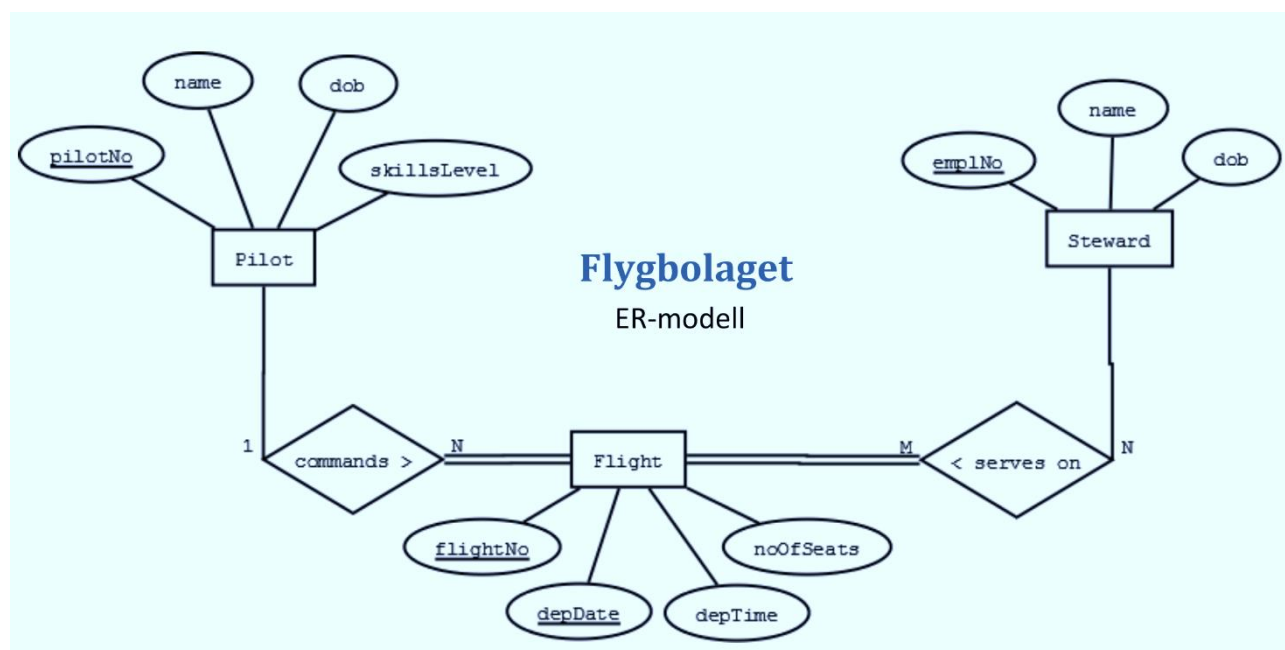


# Individuell uppgift 2, H1030

Yasir Riyadh Jabbar (TIDAA KTH)



Pilot (pilotNo, name, dob, skillsLevel)

Flight (flightNo, depDate, depTime, noOfSeats, commanderNo)

Flight.commanderNo **REFERENCES** Pilot.pilotNo

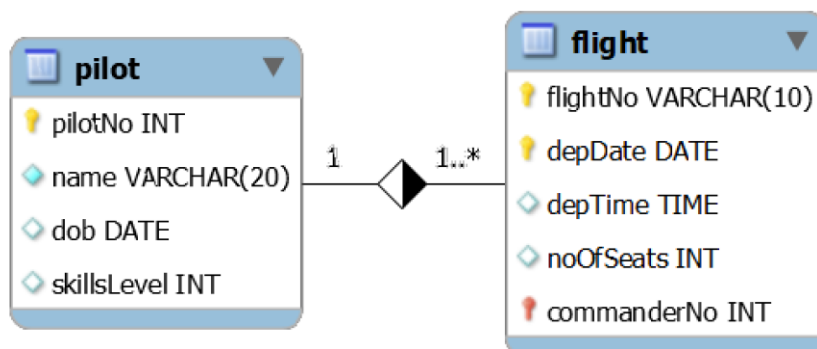
Steward (emplNo, name, dob)

servesOn (emplNo, flightNo, depDate)

servesOn.emplNo **REFERENCES** Steward.emplNo

servesOn.flightNo **REFERENCES** Flight.flightNo

servesOn.depDate **REFERENCES** Flight.depDate



# Uppgift A

- Skapa tabeller för **pilot** och **flight** en databas med korrekt SQL-syntax

```
1 CREATE SCHEMA `uppgift2` ;  
2
```

The screenshot shows a database management interface. On the left, a 'Navigator' pane displays a tree structure for a schema named 'uppgift2'. It includes folders for 'Tables', 'Columns', 'Indexes', 'Foreign Keys', and 'Triggers'. Under 'Tables', there are two entries: 'flight' and 'pilot'. The 'Schemas' tab is selected, and the 'Schema: uppgift2' is displayed at the bottom. The main editor pane shows the SQL code for creating the tables:

```
1 CREATE TABLE pilot (  
2     pilotNo INT NOT NULL AUTO_INCREMENT,  
3     name VARCHAR(20) NOT NULL,  
4     dob date,  
5     skillsLevel INT,  
6     PRIMARY KEY(pilotNo)  
7 );  
8  
9 CREATE TABLE flight (  
10     flightNo varchar(10) NOT NULL,  
11     depDate date NOT NULL,  
12     depTime TIME,  
13     noOfSeats INT,  
14     commanderNo INT NOT NULL,  
15     PRIMARY KEY(flightNo,depDate,commanderNo),  
16     FOREIGN KEY(commanderNo) REFERENCES Pilot(pilotNo)  
17 );
```

- `describe pilot;`

	Field	Type	Null	Key	Default	Extra
▶	pilotNo	int	NO	PRI	NULL	auto_increment
	name	varchar(20)	NO		NULL	
	dob	date	YES		NULL	
	skillsLevel	int	YES		NULL	

- `describe flight;`

	Field	Type	Null	Key	Default	Extra
▶	flightNo	varchar(10)	NO	PRI	NULL	
	depDate	date	NO	PRI	NULL	
	depTime	time	YES		NULL	
	noOfSeats	int	YES		NULL	
	commanderNo	int	NO	PRI	NULL	

# Uppgift B

- Stickprov
- Information (namn, dob, etc.) genererades slumpmässigt

Navigator: uppgift2\_data

SCHEMAS

Filter objects

uppgift2

- Tables
  - flight
    - Columns
    - Indexes
    - Foreign Keys
    - Triggers
  - pilot
    - Columns
    - Indexes
    - Foreign Keys
    - Triggers

Administration Schemas

Limit to 1000 rows

```
1 • INSERT INTO pilot (name,dob,skillsLevel) VALUES ('David Bradley', '1975-01-02',4);
2 • INSERT INTO pilot (name,dob,skillsLevel) VALUES ('Gregory Coleman', '1985-07-05',4);
3 • INSERT INTO pilot (name,dob,skillsLevel) VALUES ('Joseph Hunt', '1978-01-04',3);
4 • INSERT INTO pilot (name,dob,skillsLevel) VALUES ('Michael Schmidt', '1975-06-03',2);
5
6 • INSERT INTO flight VALUES ('SK1233', '2022-11-07', '13:30:00', 80, 1);
7 • INSERT INTO flight VALUES ('SK1235', '2022-11-08', '14:00:00', 90, 4);
8 • INSERT INTO flight VALUES ('SK1236', '2022-11-09', '15:00:00', 95, 2);
9 • INSERT INTO flight VALUES ('SK1237', '2022-11-10', '14:00:00', 70, 3);
10 • INSERT INTO flight VALUES ('SK1238', '2022-11-11', '16:00:00', 75, 1);
```

pilot

Limit to 1000 rows

```
1 • SELECT * FROM uppgift2.pilot;
```

Result Grid

	pilotNo	name	dob	skillsLevel
▶	1	David Bradley	1975-01-02	4
	2	Gregory Coleman	1985-07-05	4
	3	Joseph Hunt	1978-01-04	3
	4	Michael Schmidt	1975-06-03	2
*	NULL	NULL	NULL	NULL

flight

Limit to 1000 rows

```
1 • SELECT * FROM uppgift2.flight;
```

Result Grid

	flightNo	depDate	depTime	noOfSeats	commanderNo
▶	SK1233	2022-11-07	13:30:00	80	1
	SK1235	2022-11-08	14:00:00	90	4
	SK1236	2022-11-09	15:00:00	95	2
	SK1237	2022-11-10	14:00:00	70	3
	SK1238	2022-11-11	16:00:00	75	1
▲	NULL	NULL	NULL	NULL	NULL

- Lägg till information om en ny pilot i tabellen

uppgift2\_newpilot

Limit to 1000 rows

```
1 • INSERT INTO pilot (name,dob,skillsLevel) VALUES ('New Pilot', '1980-09-05',3);
2 • INSERT INTO flight VALUES ('SK1234', '2022-11-12', '16:00:00', 70, 5);
3 • INSERT INTO flight VALUES ('SK1234', '2022-11-13', '13:00:00', 80, 5);
4 • INSERT INTO flight VALUES ('SK1234', '2022-11-14', '17:00:00', 85, 5);
```

pilot

1 • `SELECT * FROM uppgift2.pilot;`

Limit to 1000 rows

Result Grid

	pilotNo	name	dob	skillsLevel
1		David Bradley	1975-01-02	4
2		Gregory Coleman	1985-07-05	4
3		Joseph Hunt	1978-01-04	3
4		Michael Schmidt	1975-06-03	2
5		New Pilot	1980-09-05	3
	NULL	NULL	NULL	NULL

flight

1 • `SELECT * FROM uppgift2.flight;`

Limit to 1000 rows

Result Grid

	flightNo	depDate	depTime	noOfSeats	commanderNo
	SK1233	2022-11-07	13:30:00	80	1
	SK1234	2022-11-12	16:00:00	70	5
	SK1234	2022-11-13	13:00:00	80	5
	SK1234	2022-11-14	17:00:00	85	5
	SK1235	2022-11-08	14:00:00	90	4
	SK1236	2022-11-09	15:00:00	95	2
	SK1237	2022-11-10	14:00:00	70	3
	SK1238	2022-11-11	16:00:00	75	1
	NULL	NULL	NULL	NULL	NULL

- Skriv en SELECT-fråga som ger som resultatinformation om alla de flugter med flightNo "SK1234" som denne pilot flugit (vi antar att piloten nu arbetat ett tag)

uppgift2\_query

1 • `select pilot.name, flight.*`  
 2 `from pilot, flight`  
 3 `where flight.flightNo = "SK1234" and pilot.name = "New Pilot"`  
 4 `and pilot.pilotNo = flight.commanderNo;`  
 5

Limit to 1000 rows

Result Grid

	name	flightNo	depDate	depTime	noOfSeats	commanderNo
	New Pilot	SK1234	2022-11-12	16:00:00	70	5
	New Pilot	SK1234	2022-11-13	13:00:00	80	5
	New Pilot	SK1234	2022-11-14	17:00:00	85	5