

Inlämningsuppgift

Database

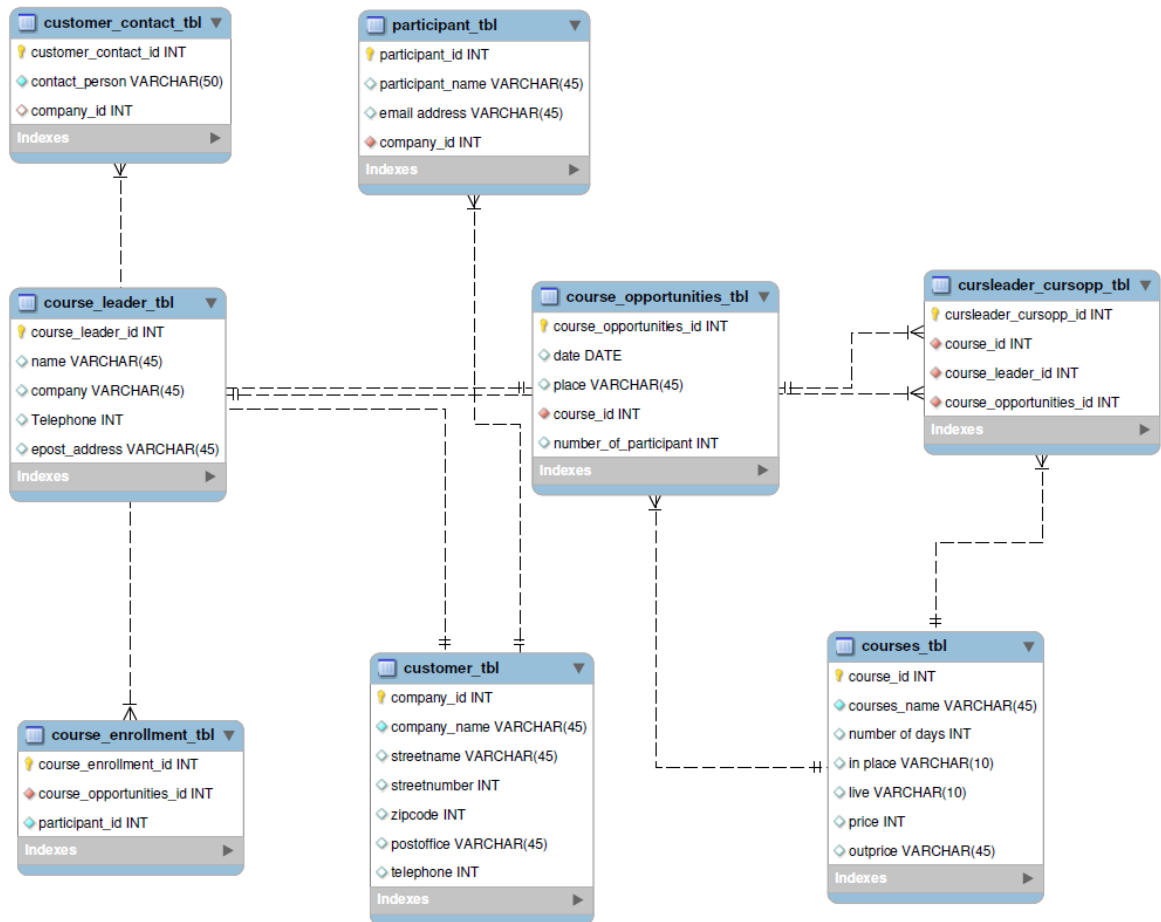
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Namn: Sheeba

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Betyg: _____

Entity-Relationship Diagram



Database

Database Name: coursedatabase_db

Table Name: course_tbl

Field	Field type	Note	Purpose
Course_id	Int	Not null,auto increment	Primary Key
Course_name	Varchar(50)	Not null	Name of course

No.of days	Int		Number of days
In place	Varchar(10)		On place
Live	Varchar(10)		Live
Price	Int		Price of the course
outprice	Int		Price with tax

```
CREATE TABLE `courses_tbl` (
```

```
  `course_id` int NOT NULL,
```

```
  `courses_name` varchar(45) NOT NULL,
```

```
  `number of days` int DEFAULT NULL,
```

```
  `in place` varchar(10) DEFAULT NULL,
```

```
  `live` varchar(10) DEFAULT NULL,
```

```
  `price` int DEFAULT NULL,
```

```
  `outprice` varchar(45) DEFAULT NULL,
```

```
  PRIMARY KEY (`course_id`),
```

```
  UNIQUE KEY `courses_name_UNIQUE` (`courses_name`));
```

```
INSERT INTO `courses_tbl` VALUES (1,'Microsoft 365',3,'yes','yes',9500,'13500'),(2,'AWS
Administration',4,'yes','yes',12000,'18900'),(3,'Azure
Administration',4,'yes','yes',12000,'18900'),(4,'GCP
Administration',4,'yes','yes',12000,'18900');
```

1 `SELECT * FROM courses_tbl;`

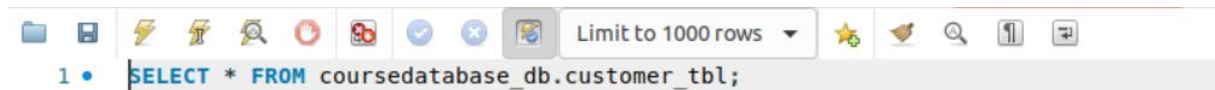
#	course_id	courses_name	number of days	in place	live	price	outprice
1	1	Microsoft 365	3	yes	yes	9500	13500
2	2	AWS Administration	4	yes	yes	12000	18900
3	3	Azure Administration	4	yes	yes	12000	18900
4	4	GCP Administration	4	yes	yes	12000	18900
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Table Name:customer_tbl

Field	Field type	Note	Purpose
Company_id	Int	Not null,auto increment	Primary Key
Company_name	Varchar(50)	Not null	Name of company
Street name	Varchar		Address
Street number	Int		Street number
zipcode	Int		pincode
postoffice	Varchar		place
phone	Int		Telephone number

```
CREATE TABLE `customer_tbl` (
  `company_id` int NOT NULL,
  `company_name` varchar(45) NOT NULL,
  `streetname` varchar(45) DEFAULT NULL,
  `streetnumber` int DEFAULT NULL,
  `zipcode` int DEFAULT NULL,
  `postoffice` varchar(45) DEFAULT NULL,
  `telephone` int DEFAULT NULL,
  PRIMARY KEY (`company_id`));
```

```
INSERT INTO `customer_tbl` VALUES
(100,'easec','Strandvägen',3,23440,'Lomma',40412891),(101,'Molntjänster i Sverige
AB','Kaplansgatan',4,18300,'Stockolm',8322323),(102,'Fyra Hjärtan
AB','Kallesgata',5,43232,'Varberg',34032123);
```



#	company_id	company_name	streetname	streetnumbe	zipcode	postoffice	telephone
1	100	easec	Strandvä...	3	23440	Lomma	40412891
2	101	Molntjänster i Sve...	Kaplans...	4	18300	Stockolm	8322323
3	102	Fyra Hjärtan AB	Kallesgata	5	43232	Varberg	34032123
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Table Name:customer_contact_tbl

Field	Field type	Note	Purpose
Customer_contact_id	Int	Not null,auto increment	Primary Key
Contact_person	Varchar(50)	Not null	Name of person
Company_id	Int		Foreign key

```
CREATE TABLE `customer_contact_tbl` (
  `customer_contact_id` int NOT NULL,
  `contact_person` varchar(50) NOT NULL,
  `company_id` int DEFAULT NULL,
  PRIMARY KEY (`customer_contact_id`),
  FOREIGN KEY (`company_id`) REFERENCES `customer_tbl` (`company_id`));

INSERT INTO `customer_contact_tbl` VALUES (10,'Kalle Kulla',100),(11,'Gullan
Holm',101),(12,'Cales Larsson',102);
```

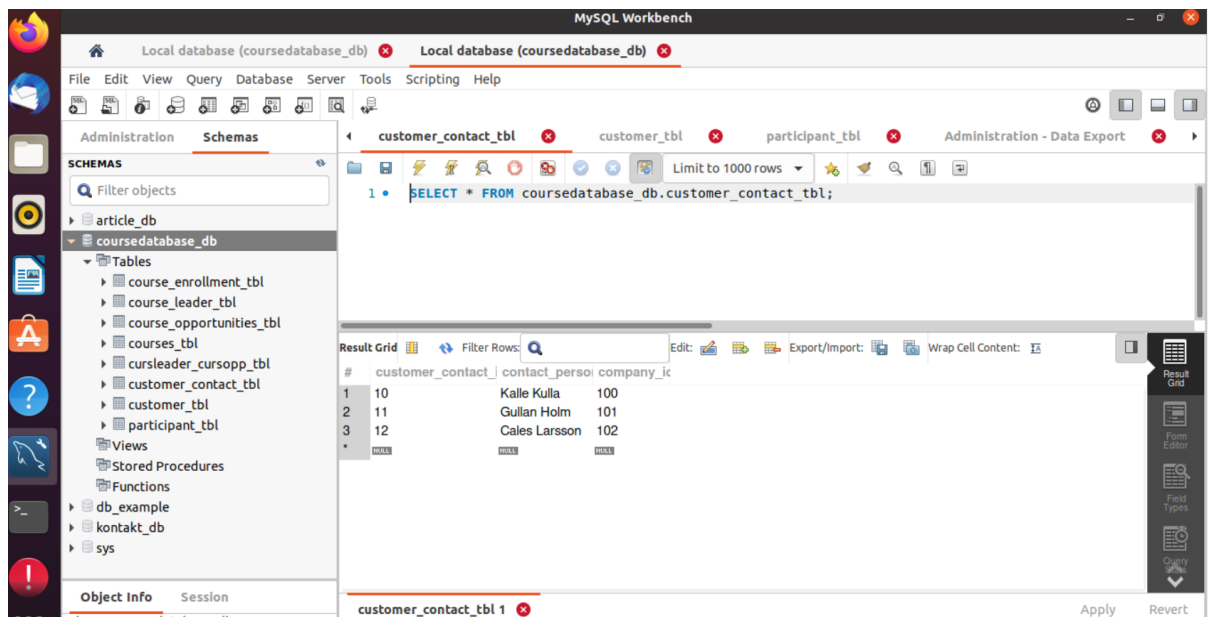


Table name:course_opportunities_tbl

Field	Field type	Note	Purpose
Course_opportunities_id	Int	Not null,auto increment	Primary Key
Date	Date		Course start date
Place	Varchar(50)		Course place
Number of participants	Int		No.of participant of the course
Course_id	Int		Foreign key

```
CREATE TABLE `course_opportunities_tbl` (
  `course_opportunities_id` int NOT NULL AUTO_INCREMENT,
  `date` date DEFAULT NULL,
  `place` varchar(45) DEFAULT NULL,
  `course_id` int NOT NULL,
  `number_of_participant` int DEFAULT NULL, PRIMARY KEY (`course_opportunities_id`),
```

```
FOREIGN KEY (`course_id`) REFERENCES `courses_tbl` (`course_id`));
```

```
INSERT INTO `course_opportunities_tbl` VALUES (200,'2022-08-01','Gothenburg',1,10),(201,'2022-08-16','Malmö',2,12),(202,'2022-08-18','Stockholm',3,16),(203,'2022-09-05','Gothenburg',4,14);
```

Table name:course_enrollment_tbl

Field	Field type	Note	Purpose
Course_enrollment_id	Int	Not null,auto increment	Primary Key
Course_opportunities_id	int	Not null	Foreign key
Course_id	int	Not null	Foreign key

```
CREATE TABLE `course_enrollment_tbl` (  
  `course_enrollment_id` int NOT NULL AUTO_INCREMENT,  
  `course_opportunities_id` int NOT NULL,  
  `participant_id` int NOT NULL,  
  PRIMARY KEY (`course_enrollment_id`),  
  FOREIGN KEY (`course_opportunities_id`) REFERENCES `course_opportunities_tbl`  
  (`course_opportunities_id`),  
  FOREIGN KEY (participant_id) REFERENCES `participant_tbl` (`participant_id`));  
INSERT INTO `course_enrollment_tbl` VALUES (500,200,300),(501,201,301);
```

Table Name:participant_tbl

Field	Field type	Note	Purpose
Participant_id	Int	Not null,auto increment	Primary Key
participant_name	Varchar(50)	Not null	Participant name
Email address	Varchar(50)		Mail Address
Company_id	Int	Not null	Foreign key

```

CREATE TABLE `participant_tbl` (

`participant_id` int NOT NULL AUTO_INCREMENT,

`participant_name` varchar(45) DEFAULT NULL,

`email address` varchar(45) DEFAULT NULL,

`company_id` int NOT NULL,

PRIMARY KEY (`participant_id`),

FOREIGN KEY (`company_id`) REFERENCES `customer_tbl` (`company_id`));

INSERT INTO `participant_tbl` VALUES
(300,'Sheeba','sheeba_rl@mail.com',100),(301,'Mary','mary_123@yahoo.com',101);

```

Tablename:course_leader_tbl

Field	Field type	Note	Purpose
Course_leader_id	Int	Not null,auto increment	Primary Key
name	Varchar(50)	Not null	Leader name
company	Varchar(50)	Not null	Company name
telephone	Int		phonenummer
Epost address	Varchar(50)		Mail id

```

CREATE TABLE `course_leader_tbl` (

`course_leader_id` int NOT NULL AUTO_INCREMENT,

`name` varchar(45)NOT NULL,

`company` varchar(45) NOT NULL,

`Telephone` int DEFAULT NULL,

`epost_address` varchar(45) DEFAULT NULL,

PRIMARY KEY (`course_leader_id`));

INSERT INTO `course_leader_tbl` VALUES
(400,'Johnsson','Volvo',76442233,'johnsson@volvo.com'),(401,'Mats','Erickson',76554421,'Mats@erikson.com');

```


Table name: cursleader_cursopp_tbl

Field	Field type	Note	Purpose
Cursleader_cursopp_id	Int	Not null,auto increment	Primary Key
Course_id	int	Not null	Foreign key
Course_leader_id	int	Not null	Foreign key
Course_opportunities_id	Int	Not null	Foreign key

```
CREATE TABLE `cursleader_cursopp_tbl` (  
  `cursleader_cursopp_id` int NOT NULL AUTO_INCREMENT,  
  `course_id` int NOT NULL,  
  `course_leader_id` int NOT NULL,  
  `course_opportunities_id` int NOT NULL,  
  PRIMARY KEY (`cursleader_cursopp_id`),  
  FOREIGN KEY (`course_id`) REFERENCES `courses_tbl` (`course_id`),  
  FOREIGN KEY (`course_leader_id`) REFERENCES `course_leader_tbl` (`course_leader_id`),  
  FOREIGN KEY (`course_opportunities_id`) REFERENCES `course_opportunities_tbl`  
  (`course_opportunities_id`));  
  
INSERT INTO `cursleader_cursopp_tbl` VALUES (600,1,400,200),(601,2,401,201);
```

Database Requirement:

Customer have several contact person

```
1 • SELECT cc.contact_person,cs.company_name
2 • FROM customer_contact_tbl AS cc,customer_tbl AS cs
3 • WHERE cs.company_id=cc.company_id AND cs.company_name='easec';
```

#	contact_person	company_name
1	Kalle Kulla	easec
2	Shyam	easec

Customer able to place order for one or more participant

```
1 • INSERT INTO course_enrollment_tbl(course_opportunities_id,participant_id)
2 • VALUES(202,300);
3 • SELECT * FROM coursedatabase_db.course_enrollment_tbl;
```

#	course_enrollment_i	course_opportunities_id	participant_id
1	500	200	300
2	501	201	301
3	502	202	300
*	HULL	HULL	HULL

Participant list for the specific course

Limit to 1000 rows			
<pre> 1 • SELECT p.participant_id,p.participant_name,c.courses_name FROM participant_tbl AS p,course_enrollm 2 course_opportunities_tbl AS co,courses_tbl AS c 3 WHERE p.participant_id=ce.participant_id AND p.company_id=cs.company_id 4 AND co.course_id=c.course_id AND c.courses_name='Microsoft 365' 5 AND cs.company_name='Molntjänster i Sverige AB' ; </pre>			
Result Grid			
Filter Rows: <input type="text"/>			
Export: <input type="text"/> Wrap Cell Content: <input type="text"/>			
#	participant_id	participant_name	courses_name
1	301	Mary	Microsoft 365

Course leader for the specific course

Courses offered and when its take place

Limit to 1000 rows			
<pre> 1 SELECT courses_tbl.courses_name,course_opportunities_tbl.date,course_opportunities_tbl.place 2 FROM courses_tbl,course_opportunities_tbl 3 where courses_tbl.course_id=course_opportunities_tbl.course_id; 4 5 </pre>			
Result Grid			
Filter Rows: <input type="text"/>			
Export: <input type="text"/> Wrap Cell Content: <input type="text"/>			
#	courses_name	date	place
1	AWS Administration	2022-08-16	Malmö
2	Azure Administration	2022-08-18	Stockholm
3	GCP Administration	2022-09-05	Gothenburg
4	Microsoft 365	2022-08-01	Gothenburg