Βάσεις Δεδομένων
Εξαμηνιαία Εργασία
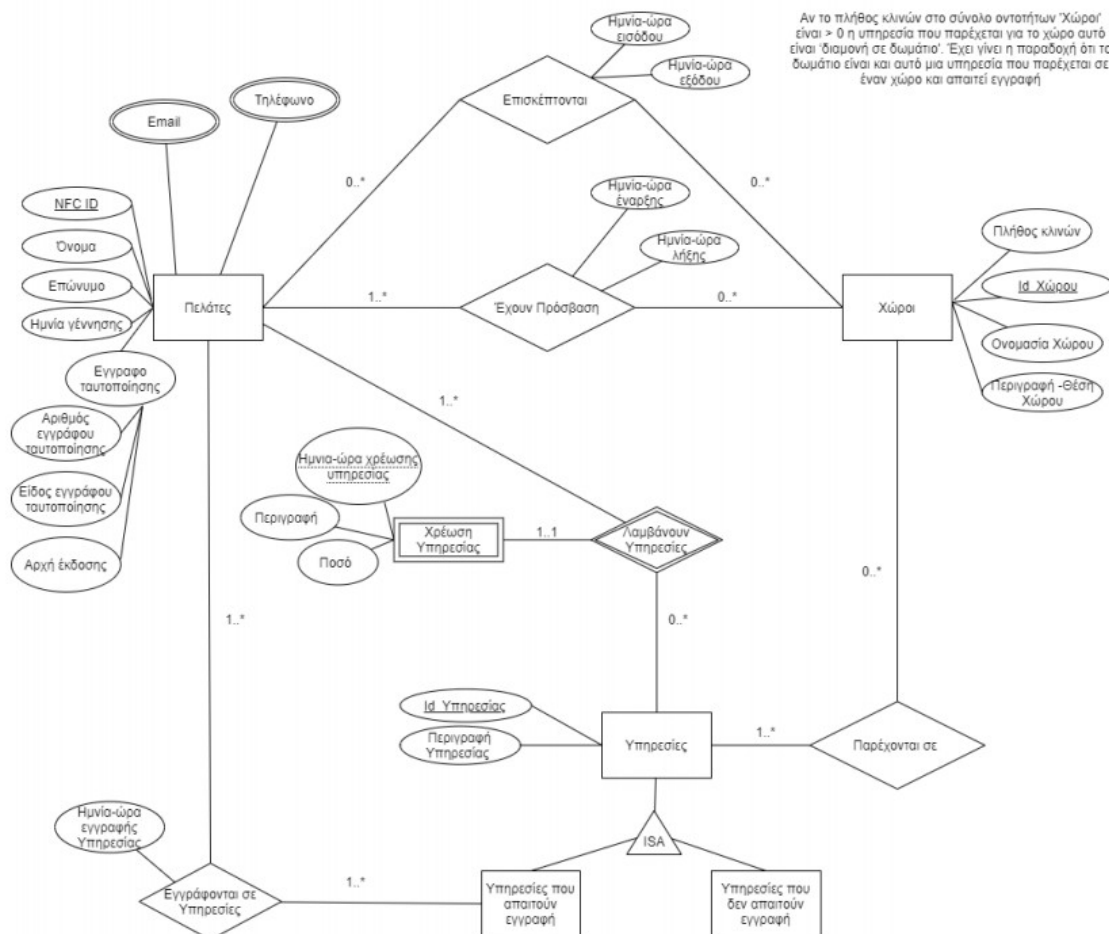
Φοιτητές:

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Θέμα 1. ER Diagram

Θα χρησιμοποιήσουμε το δοσμένο ER diagram, καθώς θεωρούμε ότι είναι πιο πραγματοποιήσιμο και διαχειρίσιμο από αυτό που παραδώσαμε.

Ακολουθεί το σχεσιακό διάγραμμα:

Χώροι (Id Χώρου, Πλήθος κλινών, Ονομασία Χώρου, Περιγραφή-Θέση Χώρου)

Πελάτες (NFC ID, Όνομα, Επώνυμο, Ημ/νία γέννησης, Αριθμός Εγγράφου Ταυτοποίησης, Είδος εγγράφου ταυτοποίησης, Αρχή έκδοσης)

Email (NFC ID, Email)
     NFC ID : PK και FK, Email : PK

Τηλέφωνο (NFC ID, Τηλέφωνο)
     NFC ID : PK και FK, Τηλέφωνο : PK

Υπηρεσίες (Id Υπηρεσίας, Περιγραφή Υπηρεσίας, Χρειάζεται εγγραφή)
     Id Υπηρεσίας : PK

Χρέωση υπηρεσίας (Id Υπηρεσίας, NFC ID, Ημ/νία-ώρα Χρέωσης Υπηρεσίας, Περιγραφή, Ποσό)
     Id Υπηρεσίας : PK και FK, NFC ID : PK και FK, Ημ/νία-ώρα Χρέωσης : PK

Επισκέπτονται (Id Χώρου, NFC ID, Ημ/νία-ώρα εισόδου, Ημ/νία-ώρα εξόδου)
     Id Χώρου : PK και FK, NFC ID : PK και FK

Έχουν Πρόσβαση (Id Χώρου, NFC ID, Ημ/νία-ώρα έναρξης, Ημ/νία-ώρα λήξης)
     Id Χώρου : PK και FK, NFC ID : PK και FK

Παρέχονται σε (Id Χώρου, Id Υπηρεσίας)
     Id Χώρου : PK και FK, Id_υπηρεσίας: PK και FK

Εγγράφονται σε Υπηρεσίες (Id Υπηρεσίας, NFC ID, Ημ/νία-ώρα εγγραφής Υπηρεσίας)
     Id Υπηρεσίας : PK και FK, NFC ID : PK και FK

Ερώτημα a) Για τους περιορισμούς έχουμε γενικά NOT NULL σε όλα τα χαρακτηριστικά και επιπλέον:

Χώροι: Πρωτεύον κλειδί το ID Χώρου ως unique

Πελάτες: Πρωτεύον κλειδί το NFC ID ως unique με auto-increment

Email: Πρωτεύον κλειδί το Email ως unique με το NFC ID ως foreign key

Τηλέφωνο: Πρωτεύον κλειδί Τηλέφωνο ως unique με το NFC ID ως foreign key

Υπηρεσίες: Πρωτεύον κλειδί το ID Υπηρεσίας ως unique με auto-increment

Χρέωση υπηρεσίας: Πρωτεύον κλειδί το Ημερομηνία-ώρα Χρέωσης Υπηρεσίας με το NFC ID και το ID υπηρεσίας ως foreign keys

Επισκέπτονται: Πρωτεύον κλειδί το NFC ID με το ID χώρου ως foreign keys

Έχουν πρόσβαση: Πρωτεύον κλειδί το NFC ID με το ID χώρου ως foreign keys

Παρέχονται σε: Πρωτεύον κλειδί το ID χώρου με το ID Υπηρεσίας ως foreign keys

Εγγράφονται σε Υπηρεσίες: Πρωτεύον κλειδί το NFC ID με το ID Υπηρεσίας ως foreign keys.

Ερώτημα b) Τα μοναδικά ευρετήρια τα οποία ορίστηκαν και χρησιμοποιούμε είναι τα indexes που δημιουργεί από default το MySQL Workbench, ένα για κάθε primary key. Δεν ασχοληθήκαμε με τη δημιουργία παραπάνω indexes που πιθανόν να βελτίωναν μερικά από τα sql queries μας.

Ερώτημα c) Για DBMS χρησιμοποιήσαμε MySQL Server μαζί με το MySQL Workbench. Στο front-end για το UI χρησιμοποιήσαμε Javascript με React.js, ενώ για το back-end και τη σύνδεση με τη βάση, Node.js και Express, όλα σε Windows 10.

Ερώτημα d) Τα prerequisites που είναι απαραίτητα για να τρέχει η εφαρμογή μας είναι : node js , npm , mysql , mysql workbench .

Για version control χρησιμοποιήσαμε το GitHub. Από εκεί μπορούμε να κάνουμε clone το repository που περιέχει τα files του project μας, εκτελώντας την παρακάτω εντολή σε ένα terminal
git clone https://github.com/ApostolisGaros/HotelManagement.git

Στη συνέχεια:
1. **My sql server set up**
Μετά την ολοκλήρωση του git clone έχουμε διαθέσιμο στον υπολογιστή μας το αρχείο databaseconfig.sql (εναλλακτικά θα υπάρχει στο .zip που υποβάλλαμε). Το συγκεκριμένο αρχείο περιέχει την δομή (structure) της βάσης δεδομένων και κάποια ενδεικτικά δεδομένα σε κάθε table για την ομαλή λειτουργία της.
Τα βήματα για το import είναι τα εξής :

a) Ανοίγουμε το mysql Workbench.

b) Συνδεόμαστε στο connection που επιθυμούμε.

c) Από το *Navigator* , επιλέγουμε το παράθυρο *Administration*.

d) Εντός αυτού του παραθύρου , από το *Management* , πατάμε "Data-Import/Restore".

e) Στο νέο παράθυρο που άνοιξε , στην καρτέλα *Import from disk* επιλέγουμε "Import from Self-Contained File" και βεβαιωνόμαστε οτι το path οδηγεί στο αρχείο databaseconfig.sql που αναφέραμε παραπάνω.

f) Στο "Default schema be imported to" πατάμε *New* , βάζουμε όνομα "hotel_management" και πατάμε OK.

e) Βεβαιωνόμαστε ότι έχουμε επιλέξει "Dump structure and data" και πατάμε "Start Import ".

2. Express server set up

Στο repository που κάναμε clone, ανοίγουμε ένα terminal (κατά προτίμηση git bash) στον φάκελο *BackEnd* και:

a) Εκτελούμε την εντολή **npm install**, για να εγκατασταθούν τα απαραίτητα dependencies.

b) Εκτελούμε την εντολή **npm start**, για να εκκινήσει ο local server. Δεν διακόπτουμε την λειτουργία αυτού του Terminal για όσο χρησιμοποιούμε την εφαρμογή.

3. React front-end set up

Στο repository που κάναμε clone, ανοίγουμε ένα terminal (κατά προτίμηση git bash) στον φάκελο *FrontEnd* και:

a) Εκτελούμε την εντολή **npm install**, για να εγκατασταθούν τα απαραίτητα dependencies.

b) Εκτελούμε την εντολή **npm start**, για να εκκινήσει η ιστοσελίδα στον browser μας. Δεν διακόπτουμε την λειτουργία αυτού του Terminal για όσο χρησιμοποιούμε την εφαρμογή.

Σε αυτό το σημείο, αν όλα έχουν ολοκληρωθεί σωστά, πρέπει να έχουμε την εφαρμογή μας up and running.

Θέμα 2. Δείτε και το επισυναπτόμενο αρχείο entiresql.sql:

```sql
-- Below is the code for the Database table creation:

-- Table customer:
CREATE TABLE `customer` (
 `idnfc` int NOT NULL AUTO_INCREMENT,
 `firstname` varchar(45) NOT NULL,
 `lastname` varchar(45) NOT NULL,
 `birthday` varchar(45) NOT NULL,
 `iddocnumber` varchar(45) NOT NULL,
 `iddoctype` varchar(45) NOT NULL,
 `iddocauthority` varchar(45) NOT NULL,
 PRIMARY KEY (`idnfc`),
 UNIQUE KEY `idnfc_UNIQUE` (`idnfc`),
 UNIQUE KEY `idpapernumber_UNIQUE` (`iddocnumber`)
) ENGINE=InnoDB AUTO_INCREMENT=1001 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4
_0900_ai_ci COMMENT='Customers of the hotel';
```

```sql
-- Table email:
CREATE TABLE `email` (
  `idnfc` int NOT NULL,
  `email` varchar(45) NOT NULL,
  PRIMARY KEY (`idnfc`,`email`),
  UNIQUE KEY `email_UNIQUE` (`email`),
  CONSTRAINT `email_idnfc` FOREIGN KEY (`idnfc`) REFERENCES `customer` (`idnfc`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;

-- Table has_access:
CREATE TABLE `has_access` (
  `idplace` int NOT NULL,
  `idnfc` int NOT NULL,
  `startdatetime` datetime NOT NULL,
  `enddatetime` datetime NOT NULL,
  PRIMARY KEY (`idplace`,`idnfc`),
  KEY `has_access_idnfc_idx` (`idnfc`),
  CONSTRAINT `has_access_idnfc` FOREIGN KEY (`idnfc`) REFERENCES `customer` (`idnfc`),
  CONSTRAINT `has_access_idplace` FOREIGN KEY (`idplace`) REFERENCES `place` (`idplace`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;

-- Table phone_number:
CREATE TABLE `phone_number` (
  `idnfc` int NOT NULL,
  `phonenumber` varchar(45) NOT NULL,
  PRIMARY KEY (`idnfc`,`phonenumber`),
  UNIQUE KEY `phonenumber_UNIQUE` (`phonenumber`),
  CONSTRAINT `phone_number_idnfc` FOREIGN KEY (`idnfc`) REFERENCES `customer` (`idnfc`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;

-- Table place:
CREATE TABLE `place` (
  `idplace` int NOT NULL,
  `bedcount` int NOT NULL DEFAULT '0',
  `placename` varchar(45) NOT NULL,
  `placedescription` varchar(45) NOT NULL,
  PRIMARY KEY (`idplace`),
  UNIQUE KEY `idplaces_UNIQUE` (`idplace`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci COMMENT='Places in the hotel';

--Table provided_in
CREATE TABLE `provided_in` (
```

```sql
  `idplace` int NOT NULL,
  `idservice` int NOT NULL,
  PRIMARY KEY (`idplace`,`idservice`),
  KEY `provided_in_idservice_idx` (`idservice`),
  CONSTRAINT `provided_in_idplace` FOREIGN KEY (`idplace`) REFERENCES `place
` (`idplace`),
  CONSTRAINT `provided_in_idservice` FOREIGN KEY (`idservice`) REFERENCES `s
ervice` (`idservice`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;

-- Table register_in_service:
CREATE TABLE `register_in_service` (
  `idservice` int NOT NULL,
  `idnfc` int NOT NULL,
  `registerdatetime` datetime NOT NULL,
  PRIMARY KEY (`idservice`,`idnfc`),
  KEY `register_idnfc_idx` (`idnfc`),
  CONSTRAINT `register_idnfc` FOREIGN KEY (`idnfc`) REFERENCES `customer` (`
idnfc`),
  CONSTRAINT `register_service` FOREIGN KEY (`idservice`) REFERENCES `servic
e` (`idservice`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;

--Table service
CREATE TABLE `service` (
  `idservice` int NOT NULL AUTO_INCREMENT,
  `servicedescription` varchar(45) NOT NULL,
  `needsregistration` tinyint NOT NULL,
  PRIMARY KEY (`idservice`),
  UNIQUE KEY `idservice_UNIQUE` (`idservice`)
) ENGINE=InnoDB AUTO_INCREMENT=8 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_09
00_ai_ci;

-- Table service_change:
CREATE TABLE `service_charge` (
  `idservice` int NOT NULL,
  `idnfc` int NOT NULL,
  `chargedatetime` datetime NOT NULL,
  `description` varchar(45) NOT NULL,
  `cost` double NOT NULL,
  PRIMARY KEY (`idservice`,`idnfc`,`chargedatetime`),
  KEY `charge_idnfc_idx` (`idnfc`),
  CONSTRAINT `charge_idnfc` FOREIGN KEY (`idnfc`) REFERENCES `customer` (`id
nfc`),
  CONSTRAINT `charge_idservice` FOREIGN KEY (`idservice`) REFERENCES `servic
e` (`idservice`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
```

```sql
-- Table visits:
CREATE TABLE `visits` (
  `idplace` int NOT NULL,
  `idnfc` int NOT NULL,
  `entrydatetime` datetime NOT NULL,
  `exitdatetime` datetime NOT NULL,
  PRIMARY KEY (`idnfc`,`idplace`),
  KEY `visits_idplace_idx` (`idplace`),
  CONSTRAINT `visits_idnfc` FOREIGN KEY (`idnfc`) REFERENCES `customer` (`idnfc`),
  CONSTRAINT `visits_idplace` FOREIGN KEY (`idplace`) REFERENCES `place` (`idplace`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;


-------------------------------------------------------------------------
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-- Below is the code for the Data insertion:

-- Insert data into customer:
INSERT INTO `customer` VALUES (1,'Bob','Myers','1978-10-21','MB5959346','Passport','Police Department of Korydallos'),
(2,'Byron','Holden','1956-05-03','HI2145639','Passport','Police Department of Peiraias'),(3,'Brock','Delgado','2014-11-20','CS2491175','Passport','Police Department of Kallithea'),
(4,'Bruno','Ballard','2004-07-15','WM1609761','Passport','Police Department of Alimos'),(5,'Jana','Fitzgerald','2015-06-19','CD4156667','Passport','Police Department of Zografos'),
(6,'Ulla','Montoya','1973-08-11','TL7452608','Passport','Police Department of Vyronas'),(7,'Akeem','Chaney','1983-03-21','ZY6554981','Passport','Police Department of Glyfada'),
(8,'Genevieve','Walton','1951-06-10','HN2490123','Passport','Police Department of Peiraias'),(9,'Ora','Garrison','1993-10-12','VR3109651','Passport','Police Department of Peiraias'),
(10,'Natalie','Good','2017-07-03','UB4209210','Passport','Police Department of Keratsini'),(11,'Graham','Mcgowan','2000-05-19','LE6805340','Passport','Police Department of Galatsi'),
(12,'Kevin','Woods','1994-11-02','FK6492514','Passport','Police Department of Elliniko'),(13,'Hayes','Mcguire','1970-03-25','HI4259642','Passport','Police Department of Keratsini'),
(14,'Ira','Rosales','2020-10-12','RA8602544','Passport','Police Department of Palaio Falhro'),(15,'Desirae','Dalton','1969-01-10','AO9929813','Passport','Police Department of Athina'),
(16,'Amethyst','Dejesus','1967-07-31','MP5736610','Passport','Police Department of Kallithea'),(17,'Delilah','Nelson','1961-06-28','BE1203259','Passport','Police Department of Palaio Falhro'),
(18,'Brian','Spears','1951-12-24','UR0290293','Passport','Police Department
```

```sql
of Palaio Falhro'),(19,'Adele','Maldonado','1990-02-
19','MN8807247','Passport','Police Department of Galatsi'),
(20,'Gage','Morin','1963-08-26','XS7566085','Passport','Police Department o
f Kallithea'),(21,'Alisa','Campos','1965-12-21','NZ870986','ID Card
','Police Department of Keratsini'),(22,'Jeremy','Greer','1993-11-
23','GG029307','ID Card','Police Department of Vyronas'),
(23,'Griffith','Kaufman','1995-11-12','JB819561','ID Card','Police Departme
nt of Glyfada'),(24,'Angelica','Barker','2006-09-21','PD352002','ID Card
','Police Department of Keratsini'),(25,'Amber','Sanford','1967-12-
15','OE159212','ID Card','Police Department of Korydallos'),
(26,'Graham','Buchanan','1970-09-25','UP653319','ID Card','Police Departmen
t of Glyfada'),(27,'Sylvia','Francis','1968-06-16','LQ062559','ID Card
','Police Department of Vyronas'),(28,'Rinah','Holden','1998-12-
05','WZ308718','ID Card','Police Department of Vyronas'),
(29,'Troy','Mccoy','1981-05-30','OD047951','ID Card','Police Department of
Glyfada'),(30,'Dora','Strong','1996-08-25','JQ659758','ID Card','Police Dep
artment of Kallithea');

-- Insert data into email:
INSERT INTO `email` VALUES (19,'adelemaldonado25@gmail.com'),
(7,'akeemchaney13@gmail.com'),(21,'alisacampos67@gmail.com'),
(25,'ambersanford73@gmail.com'),(16,'amethystdejesus98@gmail.com'),
(24,'angelicabarker53@gmail.com'),(18,'brianspears91@gmail.com'),
(3,'brockdelgado22@gmail.com'),(4,'brunoballard75@gmail.com'),
(2,'byronholden48@gmail.com'),(17,'delilahnelson27@gmail.com'),
(15,'desiraedalton94@gmail.com'),(30,'dorastrong92@gmail.com'),
(20,'gagemorin74@gmail.com'),(8,'genevievewalton73@gmail.com'),
(26,'grahambuchanan58@gmail.com'),(11,'grahammcgowan51@gmail.com'),
(23,'griffithkaufman44@gmail.com'),(13,'hayesmcguire94@gmail.com'),
(14,'irarosales32@gmail.com'),(5,'janafitzgerald69@gmail.com'),
(22,'jeremygreer74@gmail.com'),(12,'kevinwoods69@gmail.com'),
(10,'nataliegood22@gmail.com'),(9,'oragarrison73@gmail.com'),
(28,'rinahholden36@gmail.com'),(27,'sylviafrancis71@gmail.com'),
(1,'toddmyers93@gmail.com'),(29,'troymccoy71@gmail.com'),
(6,'ullamontoya72@gmail.com');

-- Insert data into has_access:
INSERT INTO `has_access` VALUES (1,1,'2021-06-16 18:10:32','2021-06-23 18:1
0:32'),(2,2,'2021-06-17 15:06:51','2021-06-24 15:06:51'),(3,3,'2021-06-16 0
0:19:32','2021-06-23 00:19:32'),(4,4,'2021-06-18 02:17:09','2021-06-25 02:1
7:09'),(5,5,'2021-06-16 23:20:31','2021-06-23 23:20:31'),(6,6,'2021-06-16 1
6:12:05','2021-06-23 16:12:05'),(7,7,'2021-06-16 02:39:57','2021-06-23 02:3
9:57'),(8,8,'2021-06-18 16:15:48','2021-06-25 16:15:48'),(9,9,'2021-06-16 1
8:34:31','2021-06-23 18:34:31'),(10,10,'2021-06-17 06:12:46','2021-06-24 06
:12:46'),(11,11,'2021-06-18 00:44:37','2021-06-25 00:44:37'),(12,12,'2021-
06-18 21:19:30','2021-06-25 21:19:30'),(13,13,'2021-06-17 10:07:24','2021-
06-24 10:07:24'),(14,14,'2021-06-17 14:16:44','2021-06-24 14:16:44'),
(15,15,'2021-06-18 10:26:58','2021-06-25 10:26:58'),(16,16,'2021-06-18 15:5
```

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(4,12,'2021-06-20 07:52:04'),(4,15,'2021-06-20 19:19:34'),(4,18,'2021-06-19
07:24:04'),(4,30,'2021-06-23 19:49:54'),(5,3,'2021-06-23 23:05:53'),
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:57:37'),(5,8,'2021-06-20 12:35:59'),(5,9,'2021-06-21 04:47:52'),
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13:41:04'),(5,14,'2021-06-22 16:03:02'),(5,22,'2021-06-20 08:25:03'),
(5,27,'2021-06-23 16:09:04'),(5,28,'2021-06-19 18:43:30'),(5,29,'2021-06-19
14:22:15'),(5,30,'2021-06-21 17:23:07'),(6,2,'2021-06-20 18:26:10'),
(6,16,'2021-06-21 09:26:06'),(6,20,'2021-06-23 18:16:31'),(6,21,'2021-06-21
04:47:52'),(6,25,'2021-06-22 12:48:58'),(7,1,'2021-06-21 00:23:11'),
(7,4,'2021-06-22 20:51:46'),(7,9,'2021-06-19 18:29:16'),(7,11,'2021-06-21 0
6:00:47'),(7,15,'2021-06-23 02:20:28'),(7,17,'2021-06-23 11:06:42'),
(7,18,'2021-06-20 17:56:25'),(7,19,'2021-06-21 15:40:28'),(7,23,'2021-06-23
19:08:11'),(7,24,'2021-06-19 14:57:57'),(7,26,'2021-06-21 17:18:16');

-- Insert data into service:
INSERT INTO `service` VALUES (1,'Room',1),(2,'Bar',0),(3,'Restaurant',0),
(4,'Barbershop',0),(5,'Gym',1),(6,'Conference Room',1),(7,'Sauna',1);

-- Insert data into service_charge:
INSERT INTO `service_charge` VALUES (1,1,'2021-06-16 18:10:32','Visit fee
',200),(1,2,'2021-06-17 15:06:51','Visit fee',500),(1,3,'2021-06-16 00:19:3
2','Visit fee',200),(1,4,'2021-06-18 02:17:09','Visit fee',500),(1,5,'2021-
06-16 23:20:31','Visit fee',200),(1,6,'2021-06-16 16:12:05','Visit fee
',500),(1,7,'2021-06-16 02:39:57','Visit fee',200),(1,8,'2021-06-18 16:15:4
8','Visit fee',500),(1,9,'2021-06-16 18:34:31','Visit fee',200),
(1,10,'2021-06-17 06:12:46','Visit fee',500),(1,11,'2021-06-18 00:44:37
```

```
','Visit fee',200),(1,12,'2021-06-18 21:19:30','Visit fee',500),
(1,13,'2021-06-17 10:07:24','Visit fee',200),(1,14,'2021-06-17 14:16:44
','Visit fee',500),(1,15,'2021-06-18 10:26:58','Visit fee',200),
(1,16,'2021-06-18 15:51:18','Visit fee',500),(1,17,'2021-06-18 16:57:00
','Visit fee',200),(1,18,'2021-06-17 04:20:40','Visit fee',500),
(1,19,'2021-06-16 20:06:58','Visit fee',200),(1,20,'2021-06-18 21:13:07
','Visit fee',500),(1,21,'2021-06-18 09:36:06','Visit fee',200),
(1,22,'2021-06-18 05:30:18','Visit fee',500),(1,23,'2021-06-16 14:55:52
','Visit fee',200),(1,24,'2021-06-18 05:44:24','Visit fee',500),
(1,25,'2021-06-17 21:23:26','Visit fee',200),(1,26,'2021-06-17 14:02:48
','Visit fee',500),(1,27,'2021-06-17 07:54:40','Visit fee',200),
(1,28,'2021-06-18 18:31:18','Visit fee',500),(1,29,'2021-06-18 19:15:33
','Visit fee',200),(1,30,'2021-06-17 05:13:56','Visit fee',500),(2,2,'2021-
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(2,9,'2021-06-26 18:10:32','Drink fee',40),(2,9,'2021-06-27 15:06:51
','Drink fee',10),(2,12,'2021-06-26 18:10:32','Drink fee',40),(2,13,'2021-
06-21 19:39:56','Drink fee',10),(2,14,'2021-06-20 18:36:36','Drink fee
',10),(2,16,'2021-06-20 08:33:13','Drink fee',10),(2,19,'2021-06-23 16:34:1
7','Drink fee',10),(2,24,'2021-06-19 03:55:39','Drink fee',10),(2,25,'2021-
06-19 08:22:59','Drink fee',10),(3,1,'2021-06-23 16:22:49','Meal fee',25),
(3,4,'2021-06-23 22:20:05','Meal fee',25),(3,6,'2021-06-22 08:08:28','Meal
fee',25),(3,7,'2021-06-20 10:51:51','Meal fee',25),(3,8,'2021-06-21 22:26:2
7','Meal fee',25),(3,9,'2021-06-23 08:27:46','Meal fee',25),(3,10,'2021-06-
23 04:56:03','Meal fee',25),(3,11,'2021-06-22 19:48:57','Meal fee',25),
(3,17,'2021-06-20 21:20:26','Meal fee',25),(3,20,'2021-06-21 00:26:36
','Meal fee',25),(3,21,'2021-06-23 19:39:28','Meal fee',25),(3,22,'2021-06-
20 00:51:24','Meal fee',25),(3,23,'2021-06-21 12:09:50','Meal fee',25),
(3,26,'2021-06-23 20:43:33','Meal fee',25),(3,27,'2021-06-22 03:51:51
','Meal fee',25),(3,28,'2021-06-20 02:45:11','Meal fee',25),(3,29,'2021-06-
19 05:00:47','Meal fee',25),(4,5,'2021-06-22 07:08:24','Haircut fee',20),
(4,12,'2021-06-20 07:52:04','Haircut fee',20),(4,15,'2021-06-20 19:19:34
','Haircut fee',20),(4,18,'2021-06-19 07:24:04','Haircut fee',20),
(4,30,'2021-06-23 19:49:54','Haircut fee',20),(5,3,'2021-06-23 23:05:53
','Training fee',15),(5,5,'2021-06-20 07:01:25','Training fee',15),
(5,6,'2021-06-21 09:37:41','Training fee',15),(5,7,'2021-06-20 22:57:37
','Training fee',15),(5,8,'2021-06-20 12:35:59','Training fee',15),
(5,10,'2021-06-22 05:04:58','Training fee',15),(5,12,'2021-06-23 20:10:58
','Training fee',15),(5,13,'2021-06-21 13:41:04','Training fee',15),
(5,14,'2021-06-22 16:03:02','Training fee',15),(5,22,'2021-06-20 08:25:03
','Training fee',15),(5,27,'2021-06-23 16:09:04','Training fee',15),
(5,28,'2021-06-19 18:43:30','Training fee',15),(5,29,'2021-06-19 14:22:15
','Training fee',15),(5,30,'2021-06-21 17:23:07','Training fee',15),
(6,1,'2021-06-21 00:23:11','Sauna fee',30),(6,2,'2021-06-20 18:26:10
','Conference room rental fee',80),(6,4,'2021-06-22 20:51:46','Sauna fee
',30),(6,9,'2021-06-19 18:29:16','Sauna fee',30),(6,11,'2021-06-21 06:00:47
','Sauna fee',30),(6,15,'2021-06-23 02:20:28','Sauna fee',30),(6,16,'2021-
06-21 09:26:06','Conference room rental fee',80),(6,17,'2021-06-23 11:06:42
','Sauna fee',30),(6,18,'2021-06-20 17:56:25','Sauna fee',30),(6,19,'2021-
```

```
06-21 15:40:28','Sauna fee',30),(6,20,'2021-06-23 18:16:31','Conference roo
m rental fee',80),(6,21,'2021-06-21 04:47:52','Conference room rental fee
',80),(6,23,'2021-06-23 19:08:11','Sauna fee',30),(6,24,'2021-06-19 14:57:5
7','Sauna fee',30),(6,25,'2021-06-22 12:48:58','Conference room rental fee
',80),(6,26,'2021-06-21 17:18:16','Sauna fee',30);

-- Insert data into visits:
INSERT INTO `visits` VALUES (1,1,'2021-06-16 18:10:32','2021-06-17 18:10:32
'),(91,1,'2021-06-21 00:23:11','2021-06-22 00:23:11'),(99,1,'2021-06-23 16:
22:49','2021-06-24 16:22:49'),(2,2,'2021-06-17 15:06:51','2021-06-18 15:06:
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7:33:56','2021-06-24 17:33:56'),(3,3,'2021-06-16 00:19:32','2021-06-17 00:1
9:32'),(86,3,'2021-06-21 11:39:02','2021-06-22 11:39:02'),(89,3,'2021-06-23
23:05:53','2021-06-24 23:05:53'),(4,4,'2021-06-18 02:17:09','2021-06-19 02:
17:09'),(91,4,'2021-06-22 20:51:46','2021-06-23 20:51:46'),(99,4,'2021-06-
23 22:20:05','2021-06-24 22:20:05'),(5,5,'2021-06-16 23:20:31','2021-06-17
23:20:31'),(88,5,'2021-06-22 07:08:24','2021-06-23 07:08:24'),(89,5,'2021-
06-20 07:01:25','2021-06-21 07:01:25'),(6,6,'2021-06-16 16:12:05','2021-06-
17 16:12:05'),(89,6,'2021-06-21 09:37:41','2021-06-22 09:37:41'),
(99,6,'2021-06-22 08:08:28','2021-06-23 08:08:28'),(7,7,'2021-06-16 02:39:5
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'),(99,7,'2021-06-20 10:51:51','2021-06-21 10:51:51'),(8,8,'2021-06-18 16:1
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9:16'),(99,9,'2021-06-23 08:27:46','2021-06-24 08:27:46'),(10,10,'2021-06-
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23 05:04:58'),(99,10,'2021-06-23 04:56:03','2021-06-24 04:56:03'),
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0:47','2021-06-22 06:00:47'),(99,11,'2021-06-22 19:48:57','2021-06-23 19:48
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24 20:10:58'),(13,13,'2021-06-17 10:07:24','2021-06-18 10:07:24'),
(86,13,'2021-06-21 19:39:56','2021-06-22 19:39:56'),(89,13,'2021-06-21 13:4
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22 16:03:02','2021-06-23 16:03:02'),(15,15,'2021-06-18 10:26:58','2021-06-
19 10:26:58'),(88,15,'2021-06-20 19:19:34','2021-06-21 19:19:34'),
(91,15,'2021-06-23 02:20:28','2021-06-24 02:20:28'),(16,16,'2021-06-18 15:5
1:18','2021-06-19 15:51:18'),(81,16,'2021-06-21 09:26:06','2021-06-22 09:26
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24 11:06:42'),(99,17,'2021-06-20 21:20:26','2021-06-21 21:20:26'),
(18,18,'2021-06-17 04:20:40','2021-06-18 04:20:40'),(88,18,'2021-06-19 07:2
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:25'),(19,19,'2021-06-16 20:06:58','2021-06-17 20:06:58'),(86,19,'2021-06-
23 16:34:17','2021-06-24 16:34:17'),(91,19,'2021-06-21 15:40:28','2021-06-
22 15:40:28'),(20,20,'2021-06-18 21:13:07','2021-06-19 21:13:07'),
```

```sql
(81,20,'2021-06-23 18:16:31','2021-06-24 18:16:31'),(99,20,'2021-06-21 00:2
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23 19:39:28','2021-06-24 19:39:28'),(22,22,'2021-06-18 05:30:18','2021-06-
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(99,22,'2021-06-20 00:51:24','2021-06-21 00:51:24'),(23,23,'2021-06-16 14:5
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:11'),(99,23,'2021-06-21 12:09:50','2021-06-22 12:09:50'),(24,24,'2021-06-
18 05:44:24','2021-06-19 05:44:24'),(86,24,'2021-06-19 03:55:39','2021-06-
20 03:55:39'),(91,24,'2021-06-19 14:57:57','2021-06-20 14:57:57'),
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24 20:43:33'),(27,27,'2021-06-17 07:54:40','2021-06-18 07:54:40'),
(89,27,'2021-06-23 16:09:04','2021-06-24 16:09:04'),(99,27,'2021-06-22 03:5
1:51','2021-06-23 03:51:51'),(28,28,'2021-06-18 18:31:18','2021-06-19 18:31
:18'),(89,28,'2021-06-19 18:43:30','2021-06-20 18:43:30'),(99,28,'2021-06-
20 02:45:11','2021-06-21 02:45:11'),(29,29,'2021-06-18 19:15:33','2021-06-
19 19:15:33'),(89,29,'2021-06-19 14:22:15','2021-06-20 14:22:15'),
(99,29,'2021-06-19 05:00:47','2021-06-20 05:00:47'),(30,30,'2021-06-17 05:1
3:56','2021-06-18 05:13:56'),(88,30,'2021-06-23 19:49:54','2021-06-24 19:49
:54'),(89,30,'2021-06-21 17:23:07','2021-06-22 17:23:07');


-------------------------------------------------------------------
-------------------------------------------

-- Below is the code for the Views creation:

-- Question 8.1: Show views for sales per service category
CREATE VIEW sales AS
SELECT B.servicedescription, COUNT(A.idservice) as sales_per_service
FROM service_charge as A, service as B
WHERE A.idservice = B.idservice
GROUP BY B.servicedescription;
SELECT * FROM sales;

-- Question 8.2: Show view for customer details
CREATE VIEW customer_details AS
SELECT * FROM customer;


-------------------------------------------------------------------
-------------------------------------------

-- Below is the code for the SQL Queries:

-- Question 7.1: Show services
SELECT *
```

```sql
FROM services;

-- Question 7.2: Show visits
SELECT S.idservice, C.idnfc, SC.chargedatetime, SC.description, SC.cost, C.
firstname, C.lastname, S.servicedescription
FROM service_charge AS SC, customer AS C, service AS S
WHERE SC.idnfc = C.idnfc AND SC.idservice = S.idservice AND S.servicedescri
ption IN ("Bar", "Gym") AND SC.cost BETWEEN 0 AND 100 AND SC.chargedatetime
BETWEEN '2021-06-16' AND '2021-06-22';

-- Question 8.1: Retrieve view and check if view is updatable
SELECT * FROM sales;

UPDATE sales
SET sales_per_service = 15
WHERE servicedescription = 'Bar';

-- Question 8.2: Retrieve view and check if view is updatable
SELECT * FROM customer_details;

UPDATE customer_details
SET firstname = 'Bob'
WHERE idnfc = 1;

-- Question 9: Show places the infected person entered
SELECT  P.idplace, P.placename, P.placedescription, V.entrydatetime, V.exit
datetime
FROM visits AS V, customer AS C, place AS P
WHERE V.idnfc = C.idnfc AND V.idplace = P.idplace AND C.idnfc = 'idnfc';

-- Question 10: Show people at risk
SELECT C.firstname, C.lastname, C.idnfc, B.idplace, B.entrydatetime, B.exit
datetime
FROM visits A, visits B, customer C
WHERE B.idnfc = C.idnfc AND A.idnfc = 'idnfc' AND A.idnfc <> B.idnfc AND A.
idplace = B.idplace AND NOT(B.entrydatetime > DATE_ADD(A.exitdatetime, INTE
RVAL 1 DAY) OR B.exitdatetime < A.entrydatetime);

-- Question 11.1: Show for 3 age groups the most visited places (3 sample q
ueries)
SELECT P.idplace, P.placename, COUNT(P.idplace) as visit_count
FROM visits as V, place as P, customer as C
WHERE V.idplace = P.idplace AND V.idnfc = C.idnfc AND C.birthday <= DATE_SU
B(CURDATE(), INTERVAL 20 YEAR) AND C.birthday > DATE_SUB(CURDATE(), INTERVA
L 41 YEAR)  AND V.entrydatetime >= DATE_SUB(CURDATE(), INTERVAL 1 MONTH)
GROUP BY P.idplace
ORDER BY COUNT(P.idplace) DESC;
```

```sql
SELECT  P.idplace, P.placename, COUNT(P.idplace) as visit_count
FROM visits as V, place as P, customer as C
WHERE V.idplace = P.idplace AND V.idnfc = C.idnfc AND C.birthday <= DATE_SU
B(CURDATE(), INTERVAL 41 YEAR) AND C.birthday > DATE_SUB(CURDATE(), INTERVA
L 61 YEAR)  AND V.entrydatetime >= DATE_SUB(CURDATE(), INTERVAL 1 YEAR)
GROUP BY P.idplace
ORDER BY COUNT(P.idplace) DESC;

SELECT  P.idplace, P.placename, COUNT(P.idplace) as visit_count
FROM visits as V, place as P, customer as C
WHERE V.idplace = P.idplace AND V.idnfc = C.idnfc AND C.birthday <= DATE_SU
B(CURDATE(), INTERVAL 61 YEAR) AND V.entrydatetime >= DATE_SUB(CURDATE(), I
NTERVAL 1 MONTH)
GROUP BY P.idplace
ORDER BY COUNT(P.idplace) DESC;

-- Question 11.2: Show for 3 age groups the most used services (3 sample qu
eries)
SELECT S.servicedescription, COUNT(V.idservice) as count
FROM service_charge as V, customer as C, service as S
WHERE  V.idnfc = C.idnfc AND V.idservice = S.idservice AND C.birthday <= DA
TE_SUB(CURDATE(), INTERVAL 20 YEAR) AND C.birthday > DATE_SUB(CURDATE(), IN
TERVAL 41 YEAR) AND V.chargedatetime >= DATE_SUB(CURDATE(), INTERVAL 1 MONT
H)
GROUP BY S.servicedescription
ORDER BY COUNT(V.idservice) DESC;

SELECT S.servicedescription, COUNT(V.idservice) as count
FROM service_charge as V, customer as C, service as S
WHERE  V.idnfc = C.idnfc AND V.idservice = S.idservice AND C.birthday <= DA
TE_SUB(CURDATE(), INTERVAL 41 YEAR) AND C.birthday > DATE_SUB(CURDATE(), IN
TERVAL 61 YEAR) AND V.chargedatetime >= DATE_SUB(CURDATE(), INTERVAL 1 YEAR
)
GROUP BY S.servicedescription
ORDER BY COUNT(V.idservice) DESC;

SELECT S.servicedescription, COUNT(V.idservice) as count
FROM service_charge as V, customer as C, service as S
WHERE  V.idnfc = C.idnfc AND V.idservice = S.idservice AND C.birthday <= DA
TE_SUB(CURDATE(), INTERVAL 61 YEAR) AND V.chargedatetime >= DATE_SUB(CURDAT
E(), INTERVAL 1 MONTH)
GROUP BY S.servicedescription
ORDER BY COUNT(V.idservice) DESC;

-- Question 11.3: Show for 3 age groups the services with most users (3 sam
ple queries)
SELECT S.servicedescription, COUNT(DISTINCT C.idnfc) as count
FROM customer as C, service as S, service_charge as R
```

```sql
WHERE R.idservice = S.idservice AND R.idnfc = C.idnfc AND C.birthday <= DAT
E_SUB(CURDATE(), INTERVAL 20 YEAR) AND C.birthday > DATE_SUB(CURDATE(), INT
ERVAL 41 YEAR) AND R.chargedatetime >= DATE_SUB(CURDATE(), INTERVAL 1 MONTH
)
GROUP BY S.servicedescription
ORDER BY COUNT(DISTINCT C.idnfc) DESC;

SELECT S.servicedescription, COUNT(DISTINCT C.idnfc) as count
FROM customer as C, service as S, service_charge as R
WHERE R.idservice = S.idservice AND R.idnfc = C.idnfc AND C.birthday <= DAT
E_SUB(CURDATE(), INTERVAL 41 YEAR) AND C.birthday > DATE_SUB(CURDATE(), INT
ERVAL 61 YEAR) AND R.chargedatetime >= DATE_SUB(CURDATE(), INTERVAL 1 YEAR)
GROUP BY S.servicedescription
ORDER BY COUNT(DISTINCT C.idnfc) DESC;

SELECT S.servicedescription, COUNT(DISTINCT C.idnfc) as count
FROM customer as C, service as S, service_charge as R
WHERE R.idservice = S.idservice AND R.idnfc = C.idnfc AND C.birthday <= DAT
E_SUB(CURDATE(), INTERVAL 61 YEAR) AND R.chargedatetime >= DATE_SUB(CURDATE
(), INTERVAL 1 MONTH)
GROUP BY S.servicedescription
ORDER BY COUNT(DISTINCT C.idnfc) DESC;
```

Θέμα 3. Δείτε και το αρχείο databaseconfig.sql

```sql
-- MySQL dump 10.13  Distrib 8.0.25, for Win64 (x86_64)
--
-- Host: localhost    Database: hotel_management
-- ------------------------------------------------------
-- Server version	8.0.25

/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
/*!50503 SET NAMES utf8 */;
/*!40103 SET @OLD_TIME_ZONE=@@TIME_ZONE */;
/*!40103 SET TIME_ZONE='+00:00' */;
/*!40014 SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0 */;
/*!40014 SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS, FOREIGN_KEY_CHEC
KS=0 */;
/*!40101 SET @OLD_SQL_MODE=@@SQL_MODE, SQL_MODE='NO_AUTO_VALUE_ON_ZERO' */;
/*!40111 SET @OLD_SQL_NOTES=@@SQL_NOTES, SQL_NOTES=0 */;

--
-- Table structure for table `customer`
--
```

```sql
DROP TABLE IF EXISTS `customer`;
/*!40101 SET @saved_cs_client     = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `customer` (
  `idnfc` int NOT NULL AUTO_INCREMENT,
  `firstname` varchar(45) NOT NULL,
  `lastname` varchar(45) NOT NULL,
  `birthday` varchar(45) NOT NULL,
  `iddocnumber` varchar(45) NOT NULL,
  `iddoctype` varchar(45) NOT NULL,
  `iddocauthority` varchar(45) NOT NULL,
  PRIMARY KEY (`idnfc`),
  UNIQUE KEY `idnfc_UNIQUE` (`idnfc`),
  UNIQUE KEY `idpapernumber_UNIQUE` (`iddocnumber`)
) ENGINE=InnoDB AUTO_INCREMENT=1001 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4
_0900_ai_ci COMMENT='Customers of the hotel';
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `customer`
--

LOCK TABLES `customer` WRITE;
/*!40000 ALTER TABLE `customer` DISABLE KEYS */;
INSERT INTO `customer` VALUES (1,'Bob','Myers','1978-10-
21','MB5959346','Passport','Police Department of Korydallos'),
(2,'Byron','Holden','1956-05-03','HI2145639','Passport','Police Department
of Peiraias'),(3,'Brock','Delgado','2014-11-
20','CS2491175','Passport','Police Department of Kallithea'),
(4,'Bruno','Ballard','2004-07-15','WM1609761','Passport','Police Department
of Alimos'),(5,'Jana','Fitzgerald','2015-06-
19','CD4156667','Passport','Police Department of Zografos'),
(6,'Ulla','Montoya','1973-08-11','TL7452608','Passport','Police Department
of Vyronas'),(7,'Akeem','Chaney','1983-03-
21','ZY6554981','Passport','Police Department of Glyfada'),
(8,'Genevieve','Walton','1951-06-10','HN2490123','Passport','Police Departm
ent of Peiraias'),(9,'Ora','Garrison','1993-10-
12','VR3109651','Passport','Police Department of Peiraias'),
(10,'Natalie','Good','2017-07-03','UB4209210','Passport','Police Department
of Keratsini'),(11,'Graham','Mcgowan','2000-05-
19','LE6805340','Passport','Police Department of Galatsi'),
(12,'Kevin','Woods','1994-11-02','FK6492514','Passport','Police Department
of Elliniko'),(13,'Hayes','Mcguire','1970-03-
25','HI4259642','Passport','Police Department of Keratsini'),
(14,'Ira','Rosales','2020-10-12','RA8602544','Passport','Police Department
of Palaio Falhro'),(15,'Desirae','Dalton','1969-01-
10','AO9929813','Passport','Police Department of Athina'),
```

```sql
(16,'Amethyst','Dejesus','1967-07-31','MP5736610','Passport','Police Depart
ment of Kallithea'),(17,'Delilah','Nelson','1961-06-
28','BE1203259','Passport','Police Department of Palaio Falhro'),
(18,'Brian','Spears','1951-12-24','UR0290293','Passport','Police Department
of Palaio Falhro'),(19,'Adele','Maldonado','1990-02-
19','MN8807247','Passport','Police Department of Galatsi'),
(20,'Gage','Morin','1963-08-26','XS7566085','Passport','Police Department o
f Kallithea'),(21,'Alisa','Campos','1965-12-21','NZ870986','ID Card
','Police Department of Keratsini'),(22,'Jeremy','Greer','1993-11-
23','GG029307','ID Card','Police Department of Vyronas'),
(23,'Griffith','Kaufman','1995-11-12','JB819561','ID Card','Police Departme
nt of Glyfada'),(24,'Angelica','Barker','2006-09-21','PD352002','ID Card
','Police Department of Keratsini'),(25,'Amber','Sanford','1967-12-
15','OE159212','ID Card','Police Department of Korydallos'),
(26,'Graham','Buchanan','1970-09-25','UP653319','ID Card','Police Departmen
t of Glyfada'),(27,'Sylvia','Francis','1968-06-16','LQ062559','ID Card
','Police Department of Vyronas'),(28,'Rinah','Holden','1998-12-
05','WZ308718','ID Card','Police Department of Vyronas'),
(29,'Troy','Mccoy','1981-05-30','OD047951','ID Card','Police Department of
Glyfada'),(30,'Dora','Strong','1996-08-25','JQ659758','ID Card','Police Dep
artment of Kallithea');
/*!40000 ALTER TABLE `customer` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Temporary view structure for view `customer_details`
--

DROP TABLE IF EXISTS `customer_details`;
/*!50001 DROP VIEW IF EXISTS `customer_details`*/;
SET @saved_cs_client     = @@character_set_client;
/*!50503 SET character_set_client = utf8mb4 */;
/*!50001 CREATE VIEW `customer_details` AS SELECT
 1 AS `idnfc`,
 1 AS `firstname`,
 1 AS `lastname`,
 1 AS `birthday`,
 1 AS `iddocnumber`,
 1 AS `iddoctype`,
 1 AS `iddocauthority`*/;
SET character_set_client = @saved_cs_client;

--
-- Table structure for table `email`
--

DROP TABLE IF EXISTS `email`;
/*!40101 SET @saved_cs_client     = @@character_set_client */;
```

```sql
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `email` (
  `idnfc`  int NOT NULL,
  `email`  varchar(45) NOT NULL,
  PRIMARY KEY (`idnfc`,`email`),
  UNIQUE KEY `email_UNIQUE` (`email`),
  CONSTRAINT `email_idnfc`  FOREIGN KEY (`idnfc`) REFERENCES `customer`  (`idn
fc`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `email`
--

LOCK TABLES `email` WRITE;
/*!40000 ALTER TABLE `email` DISABLE KEYS */;
INSERT INTO `email` VALUES (19,'adelemaldonado25@gmail.com'),
(7,'akeemchaney13@gmail.com'),(21,'alisacampos67@gmail.com'),
(25,'ambersanford73@gmail.com'),(16,'amethystdejesus98@gmail.com'),
(24,'angelicabarker53@gmail.com'),(18,'brianspears91@gmail.com'),
(3,'brockdelgado22@gmail.com'),(4,'brunoballard75@gmail.com'),
(2,'byronholden48@gmail.com'),(17,'delilahnelson27@gmail.com'),
(15,'desiraedalton94@gmail.com'),(30,'dorastrong92@gmail.com'),
(20,'gagemorin74@gmail.com'),(8,'genevievewalton73@gmail.com'),
(26,'grahambuchanan58@gmail.com'),(11,'grahammcgowan51@gmail.com'),
(23,'griffithkaufman44@gmail.com'),(13,'hayesmcguire94@gmail.com'),
(14,'irarosales32@gmail.com'),(5,'janafitzgerald69@gmail.com'),
(22,'jeremygreer74@gmail.com'),(12,'kevinwoods69@gmail.com'),
(10,'nataliegood22@gmail.com'),(9,'oragarrison73@gmail.com'),
(28,'rinahholden36@gmail.com'),(27,'sylviafrancis71@gmail.com'),
(1,'toddmyers93@gmail.com'),(29,'troymccoy71@gmail.com'),
(6,'ullamontoya72@gmail.com');
/*!40000 ALTER TABLE `email` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Table structure for table `has_access`
--

DROP TABLE IF EXISTS `has_access`;
/*!40101 SET @saved_cs_client     = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `has_access` (
  `idplace`  int NOT NULL,
  `idnfc`  int NOT NULL,
  `startdatetime`  datetime NOT NULL,
  `enddatetime`  datetime NOT NULL,
```

```sql
  PRIMARY KEY (`idplace`,`idnfc`),
  KEY `has_access_idnfc_idx` (`idnfc`),
  CONSTRAINT `has_access_idnfc` FOREIGN KEY (`idnfc`) REFERENCES `customer`
(`idnfc`),
  CONSTRAINT `has_access_idplace` FOREIGN KEY (`idplace`) REFERENCES `place`
(`idplace`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `has_access`
--

LOCK TABLES `has_access` WRITE;
/*!40000 ALTER TABLE `has_access` DISABLE KEYS */;
INSERT INTO `has_access` VALUES (1,1,'2021-06-16 18:10:32','2021-06-23 18:1
0:32'),(2,2,'2021-06-17 15:06:51','2021-06-24 15:06:51'),(3,3,'2021-06-16 0
0:19:32','2021-06-23 00:19:32'),(4,4,'2021-06-18 02:17:09','2021-06-25 02:1
7:09'),(5,5,'2021-06-16 23:20:31','2021-06-23 23:20:31'),(6,6,'2021-06-16 1
6:12:05','2021-06-23 16:12:05'),(7,7,'2021-06-16 02:39:57','2021-06-23 02:3
9:57'),(8,8,'2021-06-18 16:15:48','2021-06-25 16:15:48'),(9,9,'2021-06-16 1
8:34:31','2021-06-23 18:34:31'),(10,10,'2021-06-17 06:12:46','2021-06-24 06
:12:46'),(11,11,'2021-06-18 00:44:37','2021-06-25 00:44:37'),(12,12,'2021-
06-18 21:19:30','2021-06-25 21:19:30'),(13,13,'2021-06-17 10:07:24','2021-
06-24 10:07:24'),(14,14,'2021-06-17 14:16:44','2021-06-24 14:16:44'),
(15,15,'2021-06-18 10:26:58','2021-06-25 10:26:58'),(16,16,'2021-06-18 15:5
1:18','2021-06-25 15:51:18'),(17,17,'2021-06-18 16:57:00','2021-06-25 16:57
:00'),(18,18,'2021-06-17 04:20:40','2021-06-24 04:20:40'),(19,19,'2021-06-
16 20:06:58','2021-06-23 20:06:58'),(20,20,'2021-06-18 21:13:07','2021-06-
25 21:13:07'),(21,21,'2021-06-18 09:36:06','2021-06-25 09:36:06'),
(22,22,'2021-06-18 05:30:18','2021-06-25 05:30:18'),(23,23,'2021-06-16 14:5
5:52','2021-06-23 14:55:52'),(24,24,'2021-06-18 05:44:24','2021-06-25 05:44
:24'),(25,25,'2021-06-17 21:23:26','2021-06-24 21:23:26'),(26,26,'2021-06-
17 14:02:48','2021-06-24 14:02:48'),(27,27,'2021-06-17 07:54:40','2021-06-
24 07:54:40'),(28,28,'2021-06-18 18:31:18','2021-06-25 18:31:18'),
(29,29,'2021-06-18 19:15:33','2021-06-25 19:15:33'),(30,30,'2021-06-17 05:1
3:56','2021-06-24 05:13:56'),(81,2,'2021-06-20 18:26:10','2021-06-27 18:26:
10'),(81,16,'2021-06-21 09:26:06','2021-06-28 09:26:06'),(81,20,'2021-06-23
18:16:31','2021-06-30 18:16:31'),(81,21,'2021-06-21 04:47:52','2021-06-28 0
4:47:52'),(81,25,'2021-06-22 12:48:58','2021-06-29 12:48:58'),(82,2,'2021-
06-20 18:26:10','2021-06-27 18:26:10'),(82,16,'2021-06-21 09:26:06','2021-
06-28 09:26:06'),(82,20,'2021-06-23 18:16:31','2021-06-30 18:16:31'),
(82,21,'2021-06-21 04:47:52','2021-06-28 04:47:52'),(82,25,'2021-06-22 12:4
8:58','2021-06-29 12:48:58'),(83,2,'2021-06-20 18:26:10','2021-06-27 18:26:
10'),(83,16,'2021-06-21 09:26:06','2021-06-28 09:26:06'),(83,20,'2021-06-23
18:16:31','2021-06-30 18:16:31'),(83,21,'2021-06-21 04:47:52','2021-06-28 0
4:47:52'),(83,25,'2021-06-22 12:48:58','2021-06-29 12:48:58'),(84,2,'2021-
06-20 18:26:10','2021-06-27 18:26:10'),(84,16,'2021-06-21 09:26:06','2021-
```

06-28 09:26:06'),(84,20,'2021-06-23 18:16:31','2021-06-30 18:16:31'),
(84,21,'2021-06-21 04:47:52','2021-06-28 04:47:52'),(84,25,'2021-06-22 12:4
8:58','2021-06-29 12:48:58'),(85,2,'2021-06-20 18:26:10','2021-06-27 18:26:
10'),(85,16,'2021-06-21 09:26:06','2021-06-28 09:26:06'),(85,20,'2021-06-23
18:16:31','2021-06-30 18:16:31'),(85,21,'2021-06-21 04:47:52','2021-06-28 0
4:47:52'),(85,25,'2021-06-22 12:48:58','2021-06-29 12:48:58'),(86,2,'2021-
06-23 17:33:56','2021-06-30 17:33:56'),(86,3,'2021-06-21 11:39:02','2021-
06-28 11:39:02'),(86,13,'2021-06-21 19:39:56','2021-06-28 19:39:56'),
(86,14,'2021-06-20 18:36:36','2021-06-27 18:36:36'),(86,16,'2021-06-20 08:3
3:13','2021-06-27 08:33:13'),(86,19,'2021-06-23 16:34:17','2021-06-30 16:34
:17'),(86,24,'2021-06-19 03:55:39','2021-06-26 03:55:39'),(86,25,'2021-06-
19 08:22:59','2021-06-26 08:22:59'),(87,2,'2021-06-23 17:33:56','2021-06-30
17:33:56'),(87,3,'2021-06-21 11:39:02','2021-06-28 11:39:02'),(87,13,'2021-
06-21 19:39:56','2021-06-28 19:39:56'),(87,14,'2021-06-20 18:36:36','2021-
06-27 18:36:36'),(87,16,'2021-06-20 08:33:13','2021-06-27 08:33:13'),
(87,19,'2021-06-23 16:34:17','2021-06-30 16:34:17'),(87,24,'2021-06-19 03:5
5:39','2021-06-26 03:55:39'),(87,25,'2021-06-19 08:22:59','2021-06-26 08:22
:59'),(88,5,'2021-06-22 07:08:24','2021-06-29 07:08:24'),(88,12,'2021-06-20
07:52:04','2021-06-27 07:52:04'),(88,15,'2021-06-20 19:19:34','2021-06-27 1
9:19:34'),(88,18,'2021-06-19 07:24:04','2021-06-26 07:24:04'),(88,30,'2021-
06-23 19:49:54','2021-06-30 19:49:54'),(89,3,'2021-06-23 23:05:53','2021-
06-30 23:05:53'),(89,5,'2021-06-20 07:01:25','2021-06-27 07:01:25'),
(89,6,'2021-06-21 09:37:41','2021-06-28 09:37:41'),(89,7,'2021-06-20 22:57:
37','2021-06-27 22:57:37'),(89,8,'2021-06-20 12:35:59','2021-06-27 12:35:59
'),(89,10,'2021-06-22 05:04:58','2021-06-29 05:04:58'),(89,12,'2021-06-23 2
0:10:58','2021-06-30 20:10:58'),(89,13,'2021-06-21 13:41:04','2021-06-28 13
:41:04'),(89,14,'2021-06-22 16:03:02','2021-06-29 16:03:02'),(89,22,'2021-
06-20 08:25:03','2021-06-27 08:25:03'),(89,27,'2021-06-23 16:09:04','2021-
06-30 16:09:04'),(89,28,'2021-06-19 18:43:30','2021-06-26 18:43:30'),
(89,29,'2021-06-19 14:22:15','2021-06-26 14:22:15'),(89,30,'2021-06-21 17:2
3:07','2021-06-28 17:23:07'),(90,3,'2021-06-23 23:05:53','2021-06-30 23:05:
53'),(90,5,'2021-06-20 07:01:25','2021-06-27 07:01:25'),(90,6,'2021-06-21 0
9:37:41','2021-06-28 09:37:41'),(90,7,'2021-06-20 22:57:37','2021-06-27 22:
57:37'),(90,8,'2021-06-20 12:35:59','2021-06-27 12:35:59'),(90,10,'2021-06-
22 05:04:58','2021-06-29 05:04:58'),(90,12,'2021-06-23 20:10:58','2021-06-
30 20:10:58'),(90,13,'2021-06-21 13:41:04','2021-06-28 13:41:04'),
(90,14,'2021-06-22 16:03:02','2021-06-29 16:03:02'),(90,22,'2021-06-20 08:2
5:03','2021-06-27 08:25:03'),(90,27,'2021-06-23 16:09:04','2021-06-30 16:09
:04'),(90,28,'2021-06-19 18:43:30','2021-06-26 18:43:30'),(90,29,'2021-06-
19 14:22:15','2021-06-26 14:22:15'),(90,30,'2021-06-21 17:23:07','2021-06-
28 17:23:07'),(91,1,'2021-06-21 00:23:11','2021-06-28 00:23:11'),
(91,4,'2021-06-22 20:51:46','2021-06-29 20:51:46'),(91,9,'2021-06-19 18:29:
16','2021-06-26 18:29:16'),(91,11,'2021-06-21 06:00:47','2021-06-28 06:00:4
7'),(91,15,'2021-06-23 02:20:28','2021-06-30 02:20:28'),(91,17,'2021-06-23
11:06:42','2021-06-30 11:06:42'),(91,18,'2021-06-20 17:56:25','2021-06-27 1
7:56:25'),(91,19,'2021-06-21 15:40:28','2021-06-28 15:40:28'),(91,23,'2021-
06-23 19:08:11','2021-06-30 19:08:11'),(91,24,'2021-06-19 14:57:57','2021-
06-26 14:57:57'),(91,26,'2021-06-21 17:18:16','2021-06-28 17:18:16'),

```
(93,1,'2021-06-21 00:23:11','2021-06-28 00:23:11'),(93,4,'2021-06-22 20:51:
46','2021-06-29 20:51:46'),(93,9,'2021-06-19 18:29:16','2021-06-26 18:29:16
'),(93,11,'2021-06-21 06:00:47','2021-06-28 06:00:47'),(93,15,'2021-06-23 0
2:20:28','2021-06-30 02:20:28'),(93,17,'2021-06-23 11:06:42','2021-06-30 11
:06:42'),(93,18,'2021-06-20 17:56:25','2021-06-27 17:56:25'),(93,19,'2021-
06-21 15:40:28','2021-06-28 15:40:28'),(93,23,'2021-06-23 19:08:11','2021-
06-30 19:08:11'),(93,24,'2021-06-19 14:57:57','2021-06-26 14:57:57'),
(93,26,'2021-06-21 17:18:16','2021-06-28 17:18:16'),(94,1,'2021-06-21 00:23
:11','2021-06-28 00:23:11'),(94,4,'2021-06-22 20:51:46','2021-06-29 20:51:4
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6:00:47','2021-06-28 06:00:47'),(94,15,'2021-06-23 02:20:28','2021-06-30 02
:20:28'),(94,17,'2021-06-23 11:06:42','2021-06-30 11:06:42'),(94,18,'2021-
06-20 17:56:25','2021-06-27 17:56:25'),(94,19,'2021-06-21 15:40:28','2021-
06-28 15:40:28'),(94,23,'2021-06-23 19:08:11','2021-06-30 19:08:11'),
(94,24,'2021-06-19 14:57:57','2021-06-26 14:57:57'),(94,26,'2021-06-21 17:1
8:16','2021-06-28 17:18:16'),(95,1,'2021-06-21 00:23:11','2021-06-28 00:23:
11'),(95,4,'2021-06-22 20:51:46','2021-06-29 20:51:46'),(95,9,'2021-06-19 1
8:29:16','2021-06-26 18:29:16'),(95,11,'2021-06-21 06:00:47','2021-06-28 06
:00:47'),(95,15,'2021-06-23 02:20:28','2021-06-30 02:20:28'),(95,17,'2021-
06-23 11:06:42','2021-06-30 11:06:42'),(95,18,'2021-06-20 17:56:25','2021-
06-27 17:56:25'),(95,19,'2021-06-21 15:40:28','2021-06-28 15:40:28'),
(95,23,'2021-06-23 19:08:11','2021-06-30 19:08:11'),(95,24,'2021-06-19 14:5
7:57','2021-06-26 14:57:57'),(95,26,'2021-06-21 17:18:16','2021-06-28 17:18
:16'),(96,1,'2021-06-21 00:23:11','2021-06-28 00:23:11'),(96,4,'2021-06-22
20:51:46','2021-06-29 20:51:46'),(96,9,'2021-06-19 18:29:16','2021-06-26 18
:29:16'),(96,11,'2021-06-21 06:00:47','2021-06-28 06:00:47'),(96,15,'2021-
06-23 02:20:28','2021-06-30 02:20:28'),(96,17,'2021-06-23 11:06:42','2021-
06-30 11:06:42'),(96,18,'2021-06-20 17:56:25','2021-06-27 17:56:25'),
(96,19,'2021-06-21 15:40:28','2021-06-28 15:40:28'),(96,23,'2021-06-23 19:0
8:11','2021-06-30 19:08:11'),(96,24,'2021-06-19 14:57:57','2021-06-26 14:57
:57'),(96,26,'2021-06-21 17:18:16','2021-06-28 17:18:16'),(99,1,'2021-06-23
16:22:49','2021-06-30 16:22:49'),(99,4,'2021-06-23 22:20:05','2021-06-30 22
:20:05'),(99,6,'2021-06-22 08:08:28','2021-06-29 08:08:28'),(99,7,'2021-06-
20 10:51:51','2021-06-27 10:51:51'),(99,8,'2021-06-21 22:26:27','2021-06-28
22:26:27'),(99,9,'2021-06-23 08:27:46','2021-06-30 08:27:46'),(99,10,'2021-
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(99,20,'2021-06-21 00:26:36','2021-06-28 00:26:36'),(99,21,'2021-06-23 19:3
9:28','2021-06-30 19:39:28'),(99,22,'2021-06-20 00:51:24','2021-06-27 00:51
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23 20:43:33','2021-06-30 20:43:33'),(99,27,'2021-06-22 03:51:51','2021-06-
29 03:51:51'),(99,28,'2021-06-20 02:45:11','2021-06-27 02:45:11'),
(99,29,'2021-06-19 05:00:47','2021-06-26 05:00:47'),(100,1,'2021-06-23 16:2
2:49','2021-06-30 16:22:49'),(100,4,'2021-06-23 22:20:05','2021-06-30 22:20
:05'),(100,6,'2021-06-22 08:08:28','2021-06-29 08:08:28'),(100,7,'2021-06-
20 10:51:51','2021-06-27 10:51:51'),(100,8,'2021-06-21 22:26:27','2021-06-
28 22:26:27'),(100,9,'2021-06-23 08:27:46','2021-06-30 08:27:46'),
(100,10,'2021-06-23 04:56:03','2021-06-30 04:56:03'),(100,11,'2021-06-22 19
```

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:48:57','2021-06-29 19:48:57'),(100,17,'2021-06-20 21:20:26','2021-06-27 21
:20:26'),(100,20,'2021-06-21 00:26:36','2021-06-28 00:26:36'),
(100,21,'2021-06-23 19:39:28','2021-06-30 19:39:28'),(100,22,'2021-06-20 00
:51:24','2021-06-27 00:51:24'),(100,23,'2021-06-21 12:09:50','2021-06-28 12
:09:50'),(100,26,'2021-06-23 20:43:33','2021-06-30 20:43:33'),
(100,27,'2021-06-22 03:51:51','2021-06-29 03:51:51'),(100,28,'2021-06-20 02
:45:11','2021-06-27 02:45:11'),(100,29,'2021-06-19 05:00:47','2021-06-26 05
:00:47');
/*!40000 ALTER TABLE `has_access` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Table structure for table `phone_number`
--

DROP TABLE IF EXISTS `phone_number`;
/*!40101 SET @saved_cs_client     = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `phone_number` (
  `idnfc` int NOT NULL,
  `phonenumber` varchar(45) NOT NULL,
  PRIMARY KEY (`idnfc`,`phonenumber`),
  UNIQUE KEY `phonenumber_UNIQUE` (`phonenumber`),
  CONSTRAINT `phone_number_idnfc` FOREIGN KEY (`idnfc`) REFERENCES `customer
` (`idnfc`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `phone_number`
--

LOCK TABLES `phone_number` WRITE;
/*!40000 ALTER TABLE `phone_number` DISABLE KEYS */;
INSERT INTO `phone_number` VALUES (28,'306901905755'),(24,'306909842905'),
(25,'306910939806'),(13,'306911750711'),(10,'306912153227'),
(3,'306913739184'),(23,'306913981305'),(12,'306926871956'),
(22,'306931082218'),(29,'306934329188'),(30,'306935951585'),
(2,'306936578622'),(6,'306937691690'),(16,'306939848155'),
(9,'306944604243'),(20,'306946600676'),(27,'306947063142'),
(11,'306947293403'),(17,'306953131578'),(26,'306955826792'),
(5,'306959139019'),(15,'306959519041'),(7,'306960153372'),
(4,'306960700042'),(1,'306961235927'),(8,'306978834766'),
(14,'306982139532'),(18,'306988751865'),(21,'306990304465'),
(19,'306993144395');
/*!40000 ALTER TABLE `phone_number` ENABLE KEYS */;
UNLOCK TABLES;
```

```sql
--
-- Table structure for table `place`
--

DROP TABLE IF EXISTS `place`;
/*!40101 SET @saved_cs_client     = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `place` (
  `idplace` int NOT NULL,
  `bedcount` int NOT NULL DEFAULT '0',
  `placename` varchar(45) NOT NULL,
  `placedescription` varchar(45) NOT NULL,
  PRIMARY KEY (`idplace`),
  UNIQUE KEY `idplaces_UNIQUE` (`idplace`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci COMMENT=
'Places in the hotel';
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `place`
--

LOCK TABLES `place` WRITE;
/*!40000 ALTER TABLE `place` DISABLE KEYS */;
INSERT INTO `place` VALUES (1,4,'Room','3 North'),(2,4,'Room','2 West'),
(3,3,'Room','4 West'),(4,3,'Room','2 East'),(5,3,'Room','5 West'),
(6,3,'Room','1 North'),(7,3,'Room','2 East'),(8,1,'Room','1 North'),
(9,4,'Room','4 West'),(10,1,'Room','1 West'),(11,3,'Room','5 East'),
(12,2,'Room','1 North'),(13,3,'Room','3 North'),(14,2,'Room','4 West'),
(15,4,'Room','2 North'),(16,2,'Room','5 South'),(17,4,'Room','3 North'),
(18,3,'Room','5 West'),(19,2,'Room','4 West'),(20,3,'Room','4 South'),
(21,3,'Room','4 South'),(22,2,'Room','5 North'),(23,1,'Room','2 West'),
(24,2,'Room','1 West'),(25,2,'Room','4 East'),(26,2,'Room','3 North'),
(27,3,'Room','3 North'),(28,3,'Room','5 East'),(29,4,'Room','4 South'),
(30,2,'Room','3 South'),(31,1,'Room','1 North'),(32,3,'Room','4 South'),
(33,3,'Room','2 West'),(34,2,'Room','3 West'),(35,2,'Room','4 West'),
(36,1,'Room','4 West'),(37,4,'Room','4 East'),(38,1,'Room','4 North'),
(39,4,'Room','3 South'),(40,2,'Room','3 North'),(41,2,'Room','4 West'),
(42,2,'Room','2 North'),(43,2,'Room','3 East'),(44,3,'Room','4 West'),
(45,1,'Room','4 West'),(46,4,'Room','4 West'),(47,3,'Room','3 North'),
(48,2,'Room','3 South'),(49,2,'Room','4 South'),(50,3,'Room','5 East'),
(51,4,'Room','2 East'),(52,1,'Room','1 North'),(53,1,'Room','2 North'),
(54,2,'Room','2 West'),(55,1,'Room','1 West'),(56,2,'Room','1 North'),
(57,3,'Room','3 South'),(58,2,'Room','2 West'),(59,1,'Room','3 North'),
(60,3,'Room','2 East'),(61,1,'Room','4 West'),(62,1,'Room','4 East'),
(63,4,'Room','2 South'),(64,4,'Room','2 South'),(65,3,'Room','5 North'),
(66,4,'Room','3 North'),(67,2,'Room','1 North'),(68,3,'Room','4 West'),
(69,2,'Room','5 East'),(70,4,'Room','2 West'),(71,3,'Room','4 West'),
```

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(72,1,'Room','5 East'),(73,2,'Room','5 East'),(74,2,'Room','5 North'),
(75,3,'Room','4 South'),(76,3,'Room','1 West'),(77,1,'Room','5 North'),
(78,4,'Room','4 South'),(79,3,'Room','3 West'),(80,3,'Room','2 East'),
(81,0,'Conference Room','2 North'),(82,0,'Conference Room','5 North'),
(83,0,'Conference Room','1 East'),(84,0,'Conference Room','1 North'),
(85,0,'Conference Room','5 South'),(86,0,'Bar','3 East'),(87,0,'Bar','4 Wes
t'),(88,0,'Barbershop','4 West'),(89,0,'Gym','2 West'),(90,0,'Gym','2 East
'),(91,0,'Sauna','4 West'),(92,0,'Reception','1 West'),(93,0,'Sauna','1 Sou
th'),(94,0,'Sauna','3 North'),(95,0,'Sauna','4 South'),(96,0,'Sauna','3 Nor
th'),(97,0,'Elevator','4 East'),(98,0,'Elevator','1 North'),
(99,0,'Restaurant','2 South'),(100,0,'Restaurant','3 North');
/*!40000 ALTER TABLE `place` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Table structure for table `provided_in`
--

DROP TABLE IF EXISTS `provided_in`;
/*!40101 SET @saved_cs_client     = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `provided_in` (
  `idplace` int NOT NULL,
  `idservice` int NOT NULL,
  PRIMARY KEY (`idplace`,`idservice`),
  KEY `provided_in_idservice_idx` (`idservice`),
  CONSTRAINT `provided_in_idplace` FOREIGN KEY (`idplace`) REFERENCES `place
` (`idplace`),
  CONSTRAINT `provided_in_idservice` FOREIGN KEY (`idservice`) REFERENCES `s
ervice` (`idservice`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `provided_in`
--

LOCK TABLES `provided_in` WRITE;
/*!40000 ALTER TABLE `provided_in` DISABLE KEYS */;
INSERT INTO `provided_in` VALUES (1,1),(2,1),(3,1),(4,1),(5,1),(6,1),(7,1),
(8,1),(9,1),(10,1),(11,1),(12,1),(13,1),(14,1),(15,1),(16,1),(17,1),(18,1),
(19,1),(20,1),(21,1),(22,1),(23,1),(24,1),(25,1),(26,1),(27,1),(28,1),
(29,1),(30,1),(31,1),(32,1),(33,1),(34,1),(35,1),(36,1),(37,1),(38,1),
(39,1),(40,1),(41,1),(42,1),(43,1),(44,1),(45,1),(46,1),(47,1),(48,1),
(49,1),(50,1),(51,1),(52,1),(53,1),(54,1),(55,1),(56,1),(57,1),(58,1),
(59,1),(60,1),(61,1),(62,1),(63,1),(64,1),(65,1),(66,1),(67,1),(68,1),
(69,1),(70,1),(71,1),(72,1),(73,1),(74,1),(75,1),(76,1),(77,1),(78,1),
```

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(79,1),(80,1),(86,2),(87,2),(99,3),(100,3),(88,4),(89,5),(90,5),(81,6),
(82,6),(83,6),(84,6),(85,6),(91,7),(93,7),(94,7),(95,7),(96,7);
/*!40000 ALTER TABLE `provided_in` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Table structure for table `register_in_service`
--

DROP TABLE IF EXISTS `register_in_service`;
/*!40101 SET @saved_cs_client     = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `register_in_service` (
  `idservice` int NOT NULL,
  `idnfc` int NOT NULL,
  `registerdatetime` datetime NOT NULL,
  PRIMARY KEY (`idservice`,`idnfc`),
  KEY `register_idnfc_idx` (`idnfc`),
  CONSTRAINT `register_idnfc` FOREIGN KEY (`idnfc`) REFERENCES `customer` (`idnfc`),
  CONSTRAINT `register_service` FOREIGN KEY (`idservice`) REFERENCES `service` (`idservice`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `register_in_service`
--

LOCK TABLES `register_in_service` WRITE;
/*!40000 ALTER TABLE `register_in_service` DISABLE KEYS */;
INSERT INTO `register_in_service` VALUES (1,1,'2021-06-16 18:10:32'),
(1,2,'2021-06-17 15:06:51'),(1,3,'2021-06-16 00:19:32'),(1,4,'2021-06-18 02
:17:09'),(1,5,'2021-06-16 23:20:31'),(1,6,'2021-06-16 16:12:05'),
(1,7,'2021-06-16 02:39:57'),(1,8,'2021-06-18 16:15:48'),(1,9,'2021-06-16 18
:34:31'),(1,10,'2021-06-17 06:12:46'),(1,11,'2021-06-18 00:44:37'),
(1,12,'2021-06-18 21:19:30'),(1,13,'2021-06-17 10:07:24'),(1,14,'2021-06-17
14:16:44'),(1,15,'2021-06-18 10:26:58'),(1,16,'2021-06-18 15:51:18'),
(1,17,'2021-06-18 16:57:00'),(1,18,'2021-06-17 04:20:40'),(1,19,'2021-06-16
20:06:58'),(1,20,'2021-06-18 21:13:07'),(1,21,'2021-06-18 09:36:06'),
(1,22,'2021-06-18 05:30:18'),(1,23,'2021-06-16 14:55:52'),(1,24,'2021-06-18
05:44:24'),(1,25,'2021-06-17 21:23:26'),(1,26,'2021-06-17 14:02:48'),
(1,27,'2021-06-17 07:54:40'),(1,28,'2021-06-18 18:31:18'),(1,29,'2021-06-18
19:15:33'),(1,30,'2021-06-17 05:13:56'),(2,2,'2021-06-23 17:33:56'),
(2,3,'2021-06-21 11:39:02'),(2,13,'2021-06-21 19:39:56'),(2,14,'2021-06-20
18:36:36'),(2,16,'2021-06-20 08:33:13'),(2,19,'2021-06-23 16:34:17'),
(2,24,'2021-06-19 03:55:39'),(2,25,'2021-06-19 08:22:59'),(3,1,'2021-06-23
16:22:49'),(3,4,'2021-06-23 22:20:05'),(3,6,'2021-06-22 08:08:28'),
```

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(3,7,'2021-06-20 10:51:51'),(3,8,'2021-06-21 22:26:27'),(3,9,'2021-06-23 08
:27:46'),(3,10,'2021-06-23 04:56:03'),(3,11,'2021-06-22 19:48:57'),
(3,17,'2021-06-20 21:20:26'),(3,20,'2021-06-21 00:26:36'),(3,21,'2021-06-23
19:39:28'),(3,22,'2021-06-20 00:51:24'),(3,23,'2021-06-21 12:09:50'),
(3,26,'2021-06-23 20:43:33'),(3,27,'2021-06-22 03:51:51'),(3,28,'2021-06-20
02:45:11'),(3,29,'2021-06-19 05:00:47'),(4,5,'2021-06-22 07:08:24'),
(4,12,'2021-06-20 07:52:04'),(4,15,'2021-06-20 19:19:34'),(4,18,'2021-06-19
07:24:04'),(4,30,'2021-06-23 19:49:54'),(5,3,'2021-06-23 23:05:53'),
(5,5,'2021-06-20 07:01:25'),(5,6,'2021-06-21 09:37:41'),(5,7,'2021-06-20 22
:57:37'),(5,8,'2021-06-20 12:35:59'),(5,9,'2021-06-21 04:47:52'),
(5,10,'2021-06-22 05:04:58'),(5,12,'2021-06-23 20:10:58'),(5,13,'2021-06-21
13:41:04'),(5,14,'2021-06-22 16:03:02'),(5,22,'2021-06-20 08:25:03'),
(5,27,'2021-06-23 16:09:04'),(5,28,'2021-06-19 18:43:30'),(5,29,'2021-06-19
14:22:15'),(5,30,'2021-06-21 17:23:07'),(6,2,'2021-06-20 18:26:10'),
(6,16,'2021-06-21 09:26:06'),(6,20,'2021-06-23 18:16:31'),(6,21,'2021-06-21
04:47:52'),(6,25,'2021-06-22 12:48:58'),(7,1,'2021-06-21 00:23:11'),
(7,4,'2021-06-22 20:51:46'),(7,9,'2021-06-19 18:29:16'),(7,11,'2021-06-21 0
6:00:47'),(7,15,'2021-06-23 02:20:28'),(7,17,'2021-06-23 11:06:42'),
(7,18,'2021-06-20 17:56:25'),(7,19,'2021-06-21 15:40:28'),(7,23,'2021-06-23
19:08:11'),(7,24,'2021-06-19 14:57:57'),(7,26,'2021-06-21 17:18:16');
/*!40000 ALTER TABLE `register_in_service` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Temporary view structure for view `sales`
--

DROP TABLE IF EXISTS `sales`;
/*!50001 DROP VIEW IF EXISTS `sales`*/;
SET @saved_cs_client     = @@character_set_client;
/*!50503 SET character_set_client = utf8mb4 */;
/*!50001 CREATE VIEW `sales` AS SELECT
1 AS `servicedescription`,
1 AS `sales_per_service`*/;
SET character_set_client = @saved_cs_client;

--
-- Table structure for table `service`
--

DROP TABLE IF EXISTS `service`;
/*!40101 SET @saved_cs_client     = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `service` (
  `idservice` int NOT NULL AUTO_INCREMENT,
  `servicedescription` varchar(45) NOT NULL,
  `needsregistration` tinyint NOT NULL,
  PRIMARY KEY (`idservice`),
```

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  UNIQUE KEY `idservice_UNIQUE` (`idservice`)
) ENGINE=InnoDB AUTO_INCREMENT=8 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_09
00_ai_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `service`
--

LOCK TABLES `service` WRITE;
/*!40000 ALTER TABLE `service` DISABLE KEYS */;
INSERT INTO `service` VALUES (1,'Room',1),(2,'Bar',0),(3,'Restaurant',0),
(4,'Barbershop',0),(5,'Gym',1),(6,'Conference Room',1),(7,'Sauna',1);
/*!40000 ALTER TABLE `service` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Table structure for table `service_charge`
--

DROP TABLE IF EXISTS `service_charge`;
/*!40101 SET @saved_cs_client     = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `service_charge` (
  `idservice` int NOT NULL,
  `idnfc` int NOT NULL,
  `chargedatetime` datetime NOT NULL,
  `description` varchar(45) NOT NULL,
  `cost` double NOT NULL,
  PRIMARY KEY (`idservice`,`idnfc`,`chargedatetime`),
  KEY `charge_idnfc_idx` (`idnfc`),
  CONSTRAINT `charge_idnfc` FOREIGN KEY (`idnfc`) REFERENCES `customer` (`id
nfc`),
  CONSTRAINT `charge_idservice` FOREIGN KEY (`idservice`) REFERENCES `servic
e` (`idservice`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `service_charge`
--

LOCK TABLES `service_charge` WRITE;
/*!40000 ALTER TABLE `service_charge` DISABLE KEYS */;
INSERT INTO `service_charge` VALUES (1,1,'2021-06-16 18:10:32','Visit fee
',200),(1,2,'2021-06-17 15:06:51','Visit fee',500),(1,3,'2021-06-16 00:19:3
2','Visit fee',200),(1,4,'2021-06-18 02:17:09','Visit fee',500),(1,5,'2021-
06-16 23:20:31','Visit fee',200),(1,6,'2021-06-16 16:12:05','Visit fee
```

',500),(1,7,'2021-06-16 02:39:57','Visit fee',200),(1,8,'2021-06-18 16:15:4
8','Visit fee',500),(1,9,'2021-06-16 18:34:31','Visit fee',200),
(1,10,'2021-06-17 06:12:46','Visit fee',500),(1,11,'2021-06-18 00:44:37
','Visit fee',200),(1,12,'2021-06-18 21:19:30','Visit fee',500),
(1,13,'2021-06-17 10:07:24','Visit fee',200),(1,14,'2021-06-17 14:16:44
','Visit fee',500),(1,15,'2021-06-18 10:26:58','Visit fee',200),
(1,16,'2021-06-18 15:51:18','Visit fee',500),(1,17,'2021-06-18 16:57:00
','Visit fee',200),(1,18,'2021-06-17 04:20:40','Visit fee',500),
(1,19,'2021-06-16 20:06:58','Visit fee',200),(1,20,'2021-06-18 21:13:07
','Visit fee',500),(1,21,'2021-06-18 09:36:06','Visit fee',200),
(1,22,'2021-06-18 05:30:18','Visit fee',500),(1,23,'2021-06-16 14:55:52
','Visit fee',200),(1,24,'2021-06-18 05:44:24','Visit fee',500),
(1,25,'2021-06-17 21:23:26','Visit fee',200),(1,26,'2021-06-17 14:02:48
','Visit fee',500),(1,27,'2021-06-17 07:54:40','Visit fee',200),
(1,28,'2021-06-18 18:31:18','Visit fee',500),(1,29,'2021-06-18 19:15:33
','Visit fee',200),(1,30,'2021-06-17 05:13:56','Visit fee',500),(2,2,'2021-
06-23 17:33:56','Drink fee',10),(2,3,'2021-06-21 11:39:02','Drink fee',10),
(2,9,'2021-06-26 18:10:32','Drink fee',40),(2,9,'2021-06-27 15:06:51
','Drink fee',10),(2,12,'2021-06-26 18:10:32','Drink fee',40),(2,13,'2021-
06-21 19:39:56','Drink fee',10),(2,14,'2021-06-20 18:36:36','Drink fee
',10),(2,16,'2021-06-20 08:33:13','Drink fee',10),(2,19,'2021-06-23 16:34:1
7','Drink fee',10),(2,24,'2021-06-19 03:55:39','Drink fee',10),(2,25,'2021-
06-19 08:22:59','Drink fee',10),(3,1,'2021-06-23 16:22:49','Meal fee',25),
(3,4,'2021-06-23 22:20:05','Meal fee',25),(3,6,'2021-06-22 08:08:28','Meal
fee',25),(3,7,'2021-06-20 10:51:51','Meal fee',25),(3,8,'2021-06-21 22:26:2
7','Meal fee',25),(3,9,'2021-06-23 08:27:46','Meal fee',25),(3,10,'2021-06-
23 04:56:03','Meal fee',25),(3,11,'2021-06-22 19:48:57','Meal fee',25),
(3,17,'2021-06-20 21:20:26','Meal fee',25),(3,20,'2021-06-21 00:26:36
','Meal fee',25),(3,21,'2021-06-23 19:39:28','Meal fee',25),(3,22,'2021-06-
20 00:51:24','Meal fee',25),(3,23,'2021-06-21 12:09:50','Meal fee',25),
(3,26,'2021-06-23 20:43:33','Meal fee',25),(3,27,'2021-06-22 03:51:51
','Meal fee',25),(3,28,'2021-06-20 02:45:11','Meal fee',25),(3,29,'2021-06-
19 05:00:47','Meal fee',25),(4,5,'2021-06-22 07:08:24','Haircut fee',20),
(4,12,'2021-06-20 07:52:04','Haircut fee',20),(4,15,'2021-06-20 19:19:34
','Haircut fee',20),(4,18,'2021-06-19 07:24:04','Haircut fee',20),
(4,30,'2021-06-23 19:49:54','Haircut fee',20),(5,3,'2021-06-23 23:05:53
','Training fee',15),(5,5,'2021-06-20 07:01:25','Training fee',15),
(5,6,'2021-06-21 09:37:41','Training fee',15),(5,7,'2021-06-20 22:57:37
','Training fee',15),(5,8,'2021-06-20 12:35:59','Training fee',15),
(5,10,'2021-06-22 05:04:58','Training fee',15),(5,12,'2021-06-23 20:10:58
','Training fee',15),(5,13,'2021-06-21 13:41:04','Training fee',15),
(5,14,'2021-06-22 16:03:02','Training fee',15),(5,22,'2021-06-20 08:25:03
','Training fee',15),(5,27,'2021-06-23 16:09:04','Training fee',15),
(5,28,'2021-06-19 18:43:30','Training fee',15),(5,29,'2021-06-19 14:22:15
','Training fee',15),(5,30,'2021-06-21 17:23:07','Training fee',15),
(6,2,'2021-06-20 18:26:10','Conference room rental fee',80),(6,16,'2021-06-
21 09:26:06','Conference room rental fee',80),(6,20,'2021-06-23 18:16:31
','Conference room rental fee',80),(6,21,'2021-06-21 04:47:52','Conference

```sql
room rental fee',80),(6,25,'2021-06-22 12:48:58','Conference room rental fe
e',80),(7,1,'2021-06-21 00:23:11','Sauna fee',30),(7,4,'2021-06-22 20:51:46
','Sauna fee',30),(7,9,'2021-06-19 18:29:16','Sauna fee',30),(7,11,'2021-
06-21 06:00:47','Sauna fee',30),(7,15,'2021-06-23 02:20:28','Sauna fee
',30),(7,17,'2021-06-23 11:06:42','Sauna fee',30),(7,18,'2021-06-20 17:56:2
5','Sauna fee',30),(7,19,'2021-06-21 15:40:28','Sauna fee',30),(7,23,'2021-
06-23 19:08:11','Sauna fee',30),(7,24,'2021-06-19 14:57:57','Sauna fee
',30),(7,26,'2021-06-21 17:18:16','Sauna fee',30);
/*!40000 ALTER TABLE `service_charge` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Table structure for table `visits`
--

DROP TABLE IF EXISTS `visits`;
/*!40101 SET @saved_cs_client     = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `visits` (
  `idplace` int NOT NULL,
  `idnfc` int NOT NULL,
  `entrydatetime` datetime NOT NULL,
  `exitdatetime` datetime NOT NULL,
  PRIMARY KEY (`idnfc`,`idplace`),
  KEY `visits_idplace_idx` (`idplace`),
  CONSTRAINT `visits_idnfc` FOREIGN KEY (`idnfc`) REFERENCES `customer` (`id
nfc`),
  CONSTRAINT `visits_idplace` FOREIGN KEY (`idplace`) REFERENCES `place` (`i
dplace`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `visits`
--

LOCK TABLES `visits` WRITE;
/*!40000 ALTER TABLE `visits` DISABLE KEYS */;
INSERT INTO `visits` VALUES (1,1,'2021-06-16 18:10:32','2021-06-17 18:10:32
'),(91,1,'2021-06-21 00:23:11','2021-06-22 00:23:11'),(99,1,'2021-06-23 16:
22:49','2021-06-24 16:22:49'),(2,2,'2021-06-17 15:06:51','2021-06-18 15:06:
51'),(81,2,'2021-06-20 18:26:10','2021-06-21 18:26:10'),(86,2,'2021-06-23 1
7:33:56','2021-06-24 17:33:56'),(3,3,'2021-06-16 00:19:32','2021-06-17 00:1
9:32'),(86,3,'2021-06-21 11:39:02','2021-06-22 11:39:02'),(89,3,'2021-06-23
23:05:53','2021-06-24 23:05:53'),(4,4,'2021-06-18 02:17:09','2021-06-19 02:
17:09'),(91,4,'2021-06-22 20:51:46','2021-06-23 20:51:46'),(99,4,'2021-06-
23 22:20:05','2021-06-24 22:20:05'),(5,5,'2021-06-16 23:20:31','2021-06-17
23:20:31'),(88,5,'2021-06-22 07:08:24','2021-06-23 07:08:24'),(89,5,'2021-
```

06-20 07:01:25','2021-06-21 07:01:25'),(6,6,'2021-06-16 16:12:05','2021-06-17 16:12:05'),(89,6,'2021-06-21 09:37:41','2021-06-22 09:37:41'),(99,6,'2021-06-22 08:08:28','2021-06-23 08:08:28'),(7,7,'2021-06-16 02:39:57','2021-06-17 02:39:57'),(89,7,'2021-06-20 22:57:37','2021-06-21 22:57:37'),(99,7,'2021-06-20 10:51:51','2021-06-21 10:51:51'),(8,8,'2021-06-18 16:15:48','2021-06-19 16:15:48'),(89,8,'2021-06-20 12:35:59','2021-06-21 12:35:59'),(99,8,'2021-06-21 22:26:27','2021-06-22 22:26:27'),(9,9,'2021-06-16 18:34:31','2021-06-17 18:34:31'),(91,9,'2021-06-19 18:29:16','2021-06-20 18:29:16'),(99,9,'2021-06-23 08:27:46','2021-06-24 08:27:46'),(10,10,'2021-06-17 06:12:46','2021-06-18 06:12:46'),(89,10,'2021-06-22 05:04:58','2021-06-23 05:04:58'),(99,10,'2021-06-23 04:56:03','2021-06-24 04:56:03'),(11,11,'2021-06-18 00:44:37','2021-06-19 00:44:37'),(91,11,'2021-06-21 06:00:47','2021-06-22 06:00:47'),(99,11,'2021-06-22 19:48:57','2021-06-23 19:48:57'),(12,12,'2021-06-18 21:19:30','2021-06-19 21:19:30'),(88,12,'2021-06-20 07:52:04','2021-06-21 07:52:04'),(89,12,'2021-06-23 20:10:58','2021-06-24 20:10:58'),(13,13,'2021-06-17 10:07:24','2021-06-18 10:07:24'),(86,13,'2021-06-21 19:39:56','2021-06-22 19:39:56'),(89,13,'2021-06-21 13:41:04','2021-06-22 13:41:04'),(14,14,'2021-06-17 14:16:44','2021-06-18 14:16:44'),(86,14,'2021-06-20 18:36:36','2021-06-21 18:36:36'),(89,14,'2021-06-22 16:03:02','2021-06-23 16:03:02'),(15,15,'2021-06-18 10:26:58','2021-06-19 10:26:58'),(88,15,'2021-06-20 19:19:34','2021-06-21 19:19:34'),(91,15,'2021-06-23 02:20:28','2021-06-24 02:20:28'),(16,16,'2021-06-18 15:51:18','2021-06-19 15:51:18'),(81,16,'2021-06-21 09:26:06','2021-06-22 09:26:06'),(86,16,'2021-06-20 08:33:13','2021-06-21 08:33:13'),(17,17,'2021-06-18 16:57:00','2021-06-19 16:57:00'),(91,17,'2021-06-23 11:06:42','2021-06-24 11:06:42'),(99,17,'2021-06-20 21:20:26','2021-06-21 21:20:26'),(18,18,'2021-06-17 04:20:40','2021-06-18 04:20:40'),(88,18,'2021-06-19 07:24:04','2021-06-20 07:24:04'),(91,18,'2021-06-20 17:56:25','2021-06-21 17:56:25'),(19,19,'2021-06-16 20:06:58','2021-06-17 20:06:58'),(86,19,'2021-06-23 16:34:17','2021-06-24 16:34:17'),(91,19,'2021-06-21 15:40:28','2021-06-22 15:40:28'),(20,20,'2021-06-18 21:13:07','2021-06-19 21:13:07'),(81,20,'2021-06-23 18:16:31','2021-06-24 18:16:31'),(99,20,'2021-06-21 00:26:36','2021-06-22 00:26:36'),(21,21,'2021-06-18 09:36:06','2021-06-19 09:36:06'),(81,21,'2021-06-21 04:47:52','2021-06-22 04:47:52'),(99,21,'2021-06-23 19:39:28','2021-06-24 19:39:28'),(22,22,'2021-06-18 05:30:18','2021-06-19 05:30:18'),(89,22,'2021-06-20 08:25:03','2021-06-21 08:25:03'),(99,22,'2021-06-20 00:51:24','2021-06-21 00:51:24'),(23,23,'2021-06-16 14:55:52','2021-06-17 14:55:52'),(91,23,'2021-06-23 19:08:11','2021-06-24 19:08:11'),(99,23,'2021-06-21 12:09:50','2021-06-22 12:09:50'),(24,24,'2021-06-18 05:44:24','2021-06-19 05:44:24'),(86,24,'2021-06-19 03:55:39','2021-06-20 03:55:39'),(91,24,'2021-06-19 14:57:57','2021-06-20 14:57:57'),(25,25,'2021-06-17 21:23:26','2021-06-18 21:23:26'),(81,25,'2021-06-22 12:48:58','2021-06-23 12:48:58'),(86,25,'2021-06-19 08:22:59','2021-06-20 08:22:59'),(26,26,'2021-06-17 14:02:48','2021-06-18 14:02:48'),(91,26,'2021-06-21 17:18:16','2021-06-22 17:18:16'),(99,26,'2021-06-23 20:43:33','2021-06-24 20:43:33'),(27,27,'2021-06-17 07:54:40','2021-06-18 07:54:40'),(89,27,'2021-06-23 16:09:04','2021-06-24 16:09:04'),(99,27,'2021-06-22 03:51:51','2021-06-23 03:51:51'),(28,28,'2021-06-18 18:31:18','2021-06-19 18:31

```sql
:18'),(89,28,'2021-06-19 18:43:30','2021-06-20 18:43:30'),(99,28,'2021-06-
20 02:45:11','2021-06-21 02:45:11'),(29,29,'2021-06-18 19:15:33','2021-06-
19 19:15:33'),(89,29,'2021-06-19 14:22:15','2021-06-20 14:22:15'),
(99,29,'2021-06-19 05:00:47','2021-06-20 05:00:47'),(30,30,'2021-06-17 05:1
3:56','2021-06-18 05:13:56'),(88,30,'2021-06-23 19:49:54','2021-06-24 19:49
:54'),(89,30,'2021-06-21 17:23:07','2021-06-22 17:23:07');
/*!40000 ALTER TABLE `visits` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Final view structure for view `customer_details`
--

/*!50001 DROP VIEW IF EXISTS `customer_details`*/;
/*!50001 SET @saved_cs_client          = @@character_set_client */;
/*!50001 SET @saved_cs_results         = @@character_set_results */;
/*!50001 SET @saved_col_connection     = @@collation_connection */;
/*!50001 SET character_set_client      = utf8mb4 */;
/*!50001 SET character_set_results     = utf8mb4 */;
/*!50001 SET collation_connection      = utf8mb4_0900_ai_ci */;
/*!50001 CREATE ALGORITHM=UNDEFINED */
/*!50013 DEFINER=`root`@`localhost` SQL SECURITY DEFINER */
/*!50001 VIEW `customer_details` AS select `customer`.`idnfc` AS `idnfc`,`c
ustomer`.`firstname` AS `firstname`,`customer`.`lastname` AS `lastname`,`cu
stomer`.`birthday` AS `birthday`,`customer`.`iddocnumber` AS `iddocnumber`,
`customer`.`iddoctype` AS `iddoctype`,`customer`.`iddocauthority` AS `iddoc
authority` from `customer` */;
/*!50001 SET character_set_client      = @saved_cs_client */;
/*!50001 SET character_set_results     = @saved_cs_results */;
/*!50001 SET collation_connection      = @saved_col_connection */;

--
-- Final view structure for view `sales`
--

/*!50001 DROP VIEW IF EXISTS `sales`*/;
/*!50001 SET @saved_cs_client          = @@character_set_client */;
/*!50001 SET @saved_cs_results         = @@character_set_results */;
/*!50001 SET @saved_col_connection     = @@collation_connection */;
/*!50001 SET character_set_client      = utf8mb4 */;
/*!50001 SET character_set_results     = utf8mb4 */;
/*!50001 SET collation_connection      = utf8mb4_0900_ai_ci */;
/*!50001 CREATE ALGORITHM=UNDEFINED */
/*!50013 DEFINER=`root`@`localhost` SQL SECURITY DEFINER */
/*!50001 VIEW `sales` AS select `b`.`servicedescription` AS `servicedescrip
tion`,count(`a`.`idservice`) AS `sales_per_service` from (`service_charge`
`a` join `service` `b`) where (`a`.`idservice` = `b`.`idservice`) group by
`b`.`servicedescription` */;
```

```
/*!50001 SET character_set_client          = @saved_cs_client */;
/*!50001 SET character_set_results         = @saved_cs_results */;
/*!50001 SET collation_connection          = @saved_col_connection */;
/*!40103 SET TIME_ZONE=@OLD_TIME_ZONE */;

/*!40101 SET SQL_MODE=@OLD_SQL_MODE */;
/*!40014 SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS */;
/*!40014 SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS */;
/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;
/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;
/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;
/*!40111 SET SQL_NOTES=@OLD_SQL_NOTES */;

-- Dump completed on 2021-06-28 19:59:45
```

Θέμα 4. Περιεχόμενα video:

Ερώτημα	0,00	0,00
(a)	0:00	0:19
(b)	0:19	1:02
(c)	1:02	2:35
(d)	2:35	2:51
(e)	2:51	3:28
(f).7	3:28	5:18
(f).9	5:18	5:40
(f).10	5:18	5:40
(f).11	5:40	5:52
(g)	5:52	6:52