### Railway Reservation System Project

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#### **Project Statement:**

In a world where convenience is paramount, passengers often seek a hassle-free means to book tickets and gather essential information about train schedules. Our project aims to provide a seamless solution, empowering passengers to effortlessly book tickets and access comprehensive details about trains —all within a single click.

#### Importance of the DataBase:

This database serves as a fundamental tool for passengers, streamlining the ticket booking process and providing essential details. Passengers can easily access information about ticket prices and utilize various payment methods such as Visa or Fawry the database empowers passengers to make informed choices by offering insights into train details, including train numbers, available classes (e.g., air conditioner or normal), and arrival times at specific stations.

Beyond passenger convenience, the database help You to know manager that manage specific station and address and the station name that will the train start from it and stop from it.

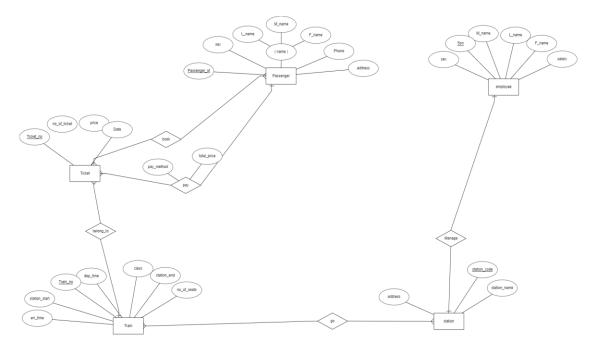
## Requirements

Design a database to keep track of information for a "Railway Reservation System"

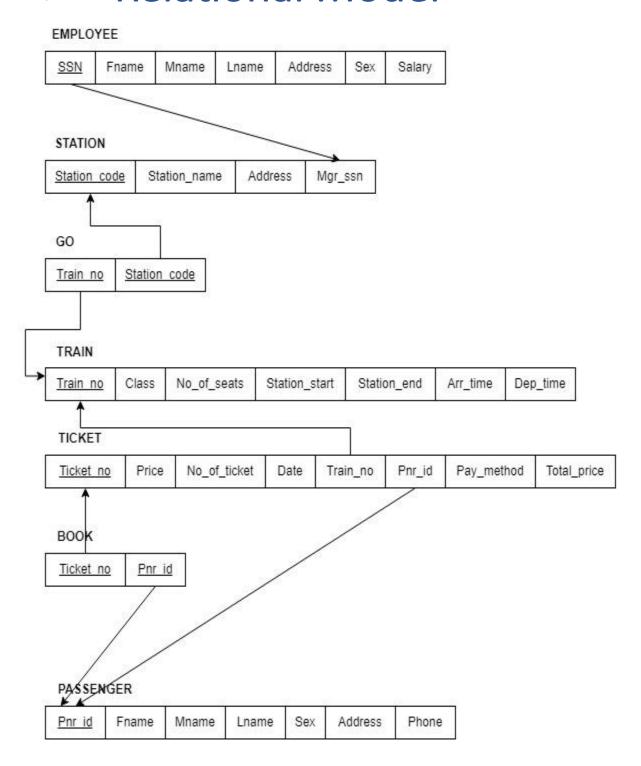
that the following requirement were collected:

- i. Each *passenger* has a unique passenger\_id ,
   name(F\_name,M\_name and L\_name)
   ,phone,address and sex,passenger who book the
   ticket .
- ii. Each *ticket* has a unique ticket\_on,price , date and number of ticket have reserved.
- iii. The *train* has a unique train\_on , station\_end , dep\_time ,class , arr\_time no\_of\_seats and station\_start.
- iv. The train go from many stations.
- v. The *station* has a unique station\_code, station name and address.
- vi. The passenger relat ticket by PAY has a pay\_method and total price.
- vii. Each *employee* has a unique ssn ,name( F\_name ,M\_name ,L\_name) , sex , address and phone.
- viii. ticket belongs to by one train.
  - ix. The employee can manage one station

# **ER diagram**



### **Relational Model**



### > SQL of Creation

- -- MySQL Workbench Forward Engineering

SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0;
SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS, FOREIGN_KEY_CHECKS=0;
SET @OLD_SQL_MODE=@@SQL_MODE, SQL_MODE='ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIN SION_BY_ZERO,NO_ENGINE_SUBSTITUTION';
DROP SCHEMA IF EXISTS `AIOA` ;
CREATE SCHEMA IF NOT EXISTS `AIOA` DEFAULT CHARACTER SET utf8 ;  JSE `AIOA` ;
DROP TABLE IF EXISTS `AIOA`.`passenger` ;
CREATE TABLE IF NOT EXISTS `AIOA`.`passenger` (
`F_name` VARCHAR(45) NOT NULL,
`M_name` VARCHAR(45) NOT NUU

```
`L_name` VARCHAR(45) NOT NULL,
 'sex' CHAR(6) NULL,
 `address` VARCHAR(45) NULL,
 `phone` INT(11) NULL,
 `passenger_id` INT(11) NOT NULL,
 PRIMARY KEY ('passenger_id'))
ENGINE = InnoDB;
-- Table `AIOA`.`train`
DROP TABLE IF EXISTS 'AIOA'. 'train';
CREATE TABLE IF NOT EXISTS 'AIOA'. 'train' (
 `station_end` VARCHAR(45) NOT NULL,
 `class` VARCHAR(45) NULL,
 `dep_time` TIME NOT NULL,
 `arr_time` TIME NOT NULL,
 `station_start` VARCHAR(45) NOT NULL,
 `seat_no_avaiable` INT(4) NULL,
 `train_no` INT(4) NOT NULL,
 PRIMARY KEY (`train_no`))
ENGINE = InnoDB;
-- Table `AIOA`.`ticket`
DROP TABLE IF EXISTS `AIOA`. `ticket`;
```

```
CREATE TABLE IF NOT EXISTS 'AIOA'. 'ticket' (
 `ticket_no` INT(4) NOT NULL,
 `price` FLOAT(6) NULL,
 `no_of_ticket` INT(4) NULL,
 'date' DATE NULL,
 `passenger_passenger_id` INT(11) NOT NULL,
 `total_price` FLOAT(9) NULL,
 'pay_method' VARCHAR(45) NULL,
 `train_train_no` INT(4) NOT NULL,
 PRIMARY KEY ('ticket_no'),
 CONSTRAINT `fk_ticket_passenger1`
  FOREIGN KEY ('passenger_passenger_id')
  REFERENCES 'AIOA'.'passenger' ('passenger_id')
  ON DELETE NO ACTION
  ON UPDATE NO ACTION,
 CONSTRAINT `fk_ticket_train1`
  FOREIGN KEY (`train_train_no`)
  REFERENCES `AIOA`.`train` (`train_no`)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION)
ENGINE = InnoDB;
-- Table `AIOA`.`employee`
DROP TABLE IF EXISTS `AIOA`. `employee`;
CREATE TABLE IF NOT EXISTS 'AIOA'.'employee' (
 `ssn` INT(11) NOT NULL,
 `salary` FLOAT(7) NULL,
```

```
`F_name` VARCHAR(45) NOT NULL,
 `M_name` VARCHAR(45) NOT NULL,
 `L_name` VARCHAR(45) NOT NULL,
 `phone` INT(11) NULL,
 'sex' CHAR(6) NULL,
 `address` VARCHAR(45) NULL,
 PRIMARY KEY ('ssn'))
ENGINE = InnoDB;
-- Table `AIOA`.`station`
DROP TABLE IF EXISTS 'AIOA'. 'station';
CREATE TABLE IF NOT EXISTS `AIOA`. `station` (
 `address` VARCHAR(45) NULL,
 `station_code` INT(9) NOT NULL,
 `station_name` VARCHAR(45) NULL,
 `mg_ssn` INT(11) NOT NULL,
 PRIMARY KEY ('station_code'),
 CONSTRAINT `fk_station_employee1`
  FOREIGN KEY (`mg_ssn`)
  REFERENCES 'AIOA'.'employee' ('ssn')
  ON DELETE NO ACTION
  ON UPDATE NO ACTION)
ENGINE = InnoDB;
-- Table `AIOA`.`book`
```

```
DROP TABLE IF EXISTS 'AIOA'.'book';
CREATE TABLE IF NOT EXISTS 'AIOA'.'book' (
 `passenger_passenger_id` INT(11) NOT NULL,
 `ticket_ticket_no` INT(4) NOT NULL,
PRIMARY KEY ('ticket_ticket_no', 'passenger_passenger_id'),
CONSTRAINT `fk_passenger_has_ticket_passenger`
  FOREIGN KEY ('passenger_passenger_id')
  REFERENCES `AIOA`.`passenger` (`passenger_id`)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION,
CONSTRAINT `fk\_passenger\_has\_ticket\_ticket1`
  FOREIGN KEY (`ticket_ticket_no`)
  REFERENCES 'AIOA'.'ticket' ('ticket_no')
  ON DELETE NO ACTION
  ON UPDATE NO ACTION)
ENGINE = InnoDB;
-- Table `AIOA`.`go`
DROP TABLE IF EXISTS `AIOA`.`go`;
CREATE TABLE IF NOT EXISTS 'AIOA'.'go' (
 `station_station_code` INT(9) NOT NULL,
 `train_train_no` INT(4) NOT NULL,
PRIMARY KEY ('train_train_no'),
CONSTRAINT `fk_station_has_train_station1`
```

FOREIGN KEY ('station\_station\_code')

```
REFERENCES `AIOA`.`station` (`station_code`)
```

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk\_station\_has\_train\_train1`

FOREIGN KEY (`train\_train\_no`)

REFERENCES `AIOA`.`train` (`train\_no`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;



- Data for table `AIOA`.`passenger`	
TART TRANSACTION;	
JSE `AIOA`;	
NSERT INTO `AIOA`.`passenger` (`F_name`, `M_name`, `L_name`, `sex`, `address`, `phone`, `passenger_id`) VALUES ('ali', 'mohamed', 'Adel', male', '12street,ramsis', NULL, 1);	
NSERT INTO `AIOA`.`passenger` (`F_name`, `M_name`, `L_name`, `sex`, `address`, `phone`, `passenger_id`) VALUES ('ahmed', 'Ashraf', moahmed', 'male', '12street, El marg,cairo', 01288428242, 20);	
NSERT INTO `AIOA`.`passenger` (`F_name`, `M_name`, `L_name`, `sex`, `address`, `phone`, `passenger_id`) VALUES ('Ibrahim', 'Ahmed', Mohamed', 'male', '13street,Kom Ombo,Aswan', 01558842824, 3);	
NSERT INTO `AIOA`.`passenger` (`F_name`, `M_name`, `L_name`, `sex`, `address`, `phone`, `passenger_id`) VALUES ('Lames', 'Mohamed', ahmed', 'female', '16street,New Asyut,Assuit', 0108842862, 9);	
NSERT INTO `AIOA`.`passenger` (`F_name`, `M_name`, `L_name`, `sex`, `address`, `phone`, `passenger_id`) VALUES ('sarah', 'omar', 'Abdullal female', '15 El Raml,Alexendra', 01188428254, 15);	۱',
NSERT INTO `AIOA`.`passenger` (`F_name`, `M_name`, `L_name`, `sex`, `address`, `phone`, `passenger_id`) VALUES ('omar', 'mohamed', osama', 'male', 'Zagazig,Sharqia', 0120014699, 2);	
COMMIT;	
- Data for table `AIOA`.`train`	
START TRANSACTION;	
JSE `AIOA`;	
NSERT INTO `AIOA`.`train` (`station_end`, `class`, `dep_time`, `arr_time`, `station_start`, `seat_no_avaiable`, `train_no`) VALUES ('Assiutsatio air conditioner', '15:20:00', '16:20:00', 'Masrstation', 150, 871);	n',
NSERT INTO `AIOA`.`train` (`station_end`, `class`, `dep_time`, `arr_time`, `station_start`, `seat_no_avaiable`, `train_no`) VALUES ('Assiutsatio normal', '14:30:00', '15:20:00', 'Masrstation', 300, 2007);	n',
NSERT INTO `AIOA`.`train` (`station_end`, `class`, `dep_time`, `arr_time`, `station_start`, `seat_no_avaiable`, `train_no`) VALUES ('Sidi GaberSation', 'normal', '20:10:00', '16:35:00', 'Zagazig', 150, 570);	
NSERT INTO `AIOA`.`train` (`station_end`, `class`, `dep_time`, `arr_time`, `station_start`, `seat_no_avaiable`, `train_no`) VALUES ('AswanStatair conditioner', '19:14:00', '22:10:00', 'Sidi GaberSation', 150, 2008);	on'
NSERT INTO `AIOA`.`train` (`station_end`, `class`, `dep_time`, `arr_time`, `station_start`, `seat_no_avaiable`, `train_no`) VALUES ('AswanStat normal', '17:14:00', '22:10:00', 'Sidi GaberSation', 300, 88);	on'

 $INSERT\ INTO\ `AIOA`. `train`\ (`station\_end`,\ `class`,\ `dep\_time`,\ `arr\_time`,\ `station\_start`,\ `seat\_no\_avaiable`,\ `train\_no`)\ VALUES\ ('Masrstation',\ `class',\ `dep\_time',\ `arr\_time',\ `station\_start',\ `seat\_no\_avaiable',\ `train\_no')\ VALUES\ ('Masrstation',\ `class',\ `dep\_time',\ `arr\_time',\ `arr\_time',\ `seat\_no\_avaiable',\ `train\_no')\ VALUES\ ('Masrstation',\ `class',\ `clas$ 

'conditioner', '17:42:00', '15:55:00', 'Zagazig', 150, 572);

INSERT INTO 'AIOA'. 'train' ('station end', 'class', 'dep time', 'arr time', 'station start', 'seat no avaiable', 'train no') VALUES ('Masrstation', 'air conditioner', '15:20:00', '14:30:00', 'Assuit', 150, 77); INSERT INTO 'AIOA'. 'train' ('station end', 'class', 'dep time', 'arr time', 'station start', 'seat no avaiable', 'train no') VALUES ('Zagazig', 'normal', '22:10:00', '19:14:00', 'Aswan', 300, 99); INSERT INTO `AIOA`.'train` ('station\_end', 'class', 'dep\_time', 'arr\_time', 'station\_start', 'seat\_no\_avaiable', 'train\_no') VALUES ('Assiutsation', 'air conditioner', '16:20:00', '15:20:00', 'Aswan', 150, 1056); COMMIT: -- Data for table 'AIOA'.'ticket' START TRANSACTION: USE 'AIOA'; INSERT INTO `AIOA`.'ticket` ('ticket\_no', `price', `no\_of\_ticket', `date', `passenger\_passenger\_id', `total\_price', `pay\_method', `train\_train\_no') VALUES (256, 150, 2, '2023-04-6', 1, 300, 'visa', 871); INSERT INTO `AIOA`.'ticket` ('ticket\_no', `price', `no\_of\_ticket', `date', `passenger\_passenger\_id', `total\_price', `pay\_method', `train\_train\_no') VALUES (102, 350, 1, '2023-4-16', 20, 350, 'fawry', 2007); INSERT INTO `AIOA`.`ticket` (`ticket\_no`, `price`, `no\_of\_ticket`, `date`, `passenger\_passenger\_id`, `total\_price`, `pay\_method`, `train\_train\_no`) VALUES (202, 150, 3, '2023-5-16', 1, 450, 'fawry', 871); INSERT INTO 'AIOA'. 'ticket' ('ticket\_no', 'price', 'no\_of\_ticket', 'date', 'passenger\_passenger\_id', 'total\_price', 'pay\_method', 'train\_train\_no') VALUES (306, 75, 1, '2023-7-5', 2, 75, 'visa', 570); INSERT INTO `AlOA`.`ticket` (`ticket\_no`, `price`, `no\_of\_ticket`, `date`, `passenger\_passenger\_id`, `total\_price`, `pay\_method`, `train\_train\_no`) VALUES (122, 250, 1, '2023-3-20', 3, 250, 'visa', 99); INSERT INTO `AlOA`.`ticket` (`ticket\_no`, `price`, `no\_of\_ticket`, `date`, `passenger\_passenger\_id`, `total\_price`, `pay\_method`, `train\_train\_no`) VALUES (222, 130, 4, '2023-2-27', 9, 520, 'fawry', 2006); INSERT INTO 'AIOA'. 'ticket' ('ticket\_no', 'price', 'no\_of\_ticket', 'date', 'passenger\_passenger\_id', 'total\_price', 'pay\_method', 'train\_train\_no') VALUES (1002, 350, 2, '2023-9-6', 15, 700, 'visa', 88); INSERT INTO 'AIOA'. 'ticket' ('ticket\_no', 'price', 'no\_of\_ticket', 'date', 'passenger\_passenger\_id', 'total\_price', 'pay\_method', 'train\_train\_no') VALUES (201, 75, 6, '2023-9-4', 2, 450, 'fawry', 572); COMMIT; -- Data for table 'AIOA'. 'employee'

INSERT INTO `AIOA`.`train` ('station\_end', 'class', 'dep\_time', 'arr\_time', 'station\_start', 'seat\_no\_avaiable', 'train\_no') VALUES ('Masrstation',

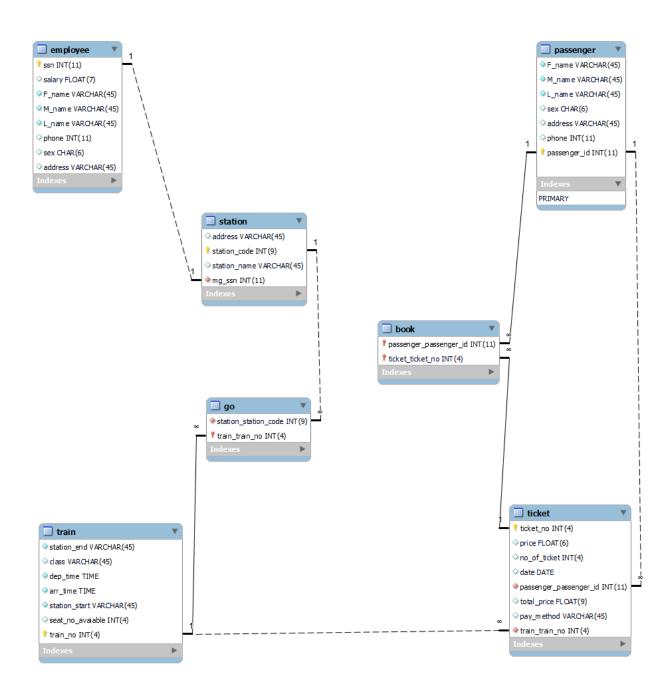
'normal', '15:20:00', '14:30:00', 'Assuit', 300, 2006);

```
START TRANSACTION;
USE 'AIOA';
INSERT INTO `AlOA`.`employee` ('ssn', 'salary', 'F_name', 'M_name', 'L_name', 'phone', 'sex', 'address') VALUES (256786, 10000, 'Hussein',
'Shehata', 'Mohamed', 015577841, 'male', 'Al tharar, Cairo');
INSERT INTO `AIOA`.`employee` ('ssn`, 'salary`, `F_name`, `M_name`, `L_name`, `phone`, `sex`, 'address`) VALUES (769102, 20000, 'Ahmed',
'Muhanna', 'Ali', 012864214, 'male', 'Abou Quer, Alexandria');
INSERT INTO `AIOA`.`employee` ('ssn', 'salary', 'F_name', 'M_name', 'L_name', 'phone', 'sex', 'address') VALUES (156201, 5000, 'ibrahim', 'Ali',
'moustafa', 011678815, 'male', 'Banha, Qalyubiyya');
INSERT INTO `AIOA`.`employee` ('ssn`, 'salary`, 'F_name`, 'M_name`, 'L_name`, 'phone`, 'sex`, 'address`) VALUES (967207, 6000, 'omar', 'adel',
'zaid', 010554891, 'male', 'Nile Cornich, Asman');
INSERT INTO `AIOA`. 'employee' ('ssn', 'salary', 'F_name', 'M_name', 'L_name', 'phone', 'sex', 'address') VALUES (658741, 15000,
'Abdulrahman', 'nour', 'gamail', 012889476, 'male', 'El-Helaly, Assuit');
COMMIT:
-- Data for table 'AIOA'. 'station'
START TRANSACTION;
USE 'AIOA';
INSERT INTO 'AIOA'. 'station' ('address', 'station_code', 'station_name', 'mg_ssn') VALUES ('Ramsis Square, Cairo', 4321102, 'Masr', 256786);
INSERT INTO 'AIOA'. 'station' ('address', 'station_code', 'station_name', 'mg_ssn') VALUES ('Abou Quer, Alexandria', 5433011, 'Sidi Gaber',
769102);
INSERT INTO `AlOA`. 'station` (`address`, `station_code`, `station_name`, `mg_ssn`) VALUES ('Orabi Square,Al-Sharqia', 7123738, 'Zagazig',
156201);
INSERT INTO `AIOA`. `station` (`address`, `station_code`, `station_name`, `mg_ssn`) VALUES ('Nile Cornich,Aswan', 81511, 'Aswan', 967207);
INSERT INTO 'AIOA'. 'station' ('address', 'station_code', 'station_name', 'mg_ssn') VALUES ('EI-Helaly, AI Hamraa Ath Thaneyah, Assiut',
2073066, 'Assiut', 658741);
COMMIT;
-- Data for table `AIOA`.`book`
START TRANSACTION;
USE 'AIOA';
INSERT INTO 'AIOA'. 'book' ('passenger_passenger_id', 'ticket_ticket_no') VALUES (1, 256);
INSERT INTO `AIOA`.`book` (`passenger_passenger_id`, `ticket_ticket_no`) VALUES (20, 102);
```

INSERT INTO `AIOA`.`book` (`passenger\_passenger\_id`, `ticket\_ticket\_no`) VALUES (1, 202);

```
INSERT INTO `AIOA`.`book` (`passenger_passenger_id`, `ticket_ticket_no`) VALUES (2, 306);
INSERT INTO 'AIOA'. 'book' ('passenger_passenger_id', 'ticket_ticket_no') VALUES (3, 122);
INSERT INTO `AIOA`.`book` (`passenger_passenger_id`, `ticket_ticket_no`) VALUES (9, 222);
INSERT INTO `AIOA`.`book` (`passenger_passenger_id`, `ticket_ticket_no`) VALUES (15, 1002);
INSERT INTO `AIOA`.`book` (`passenger_passenger_id`, `ticket_ticket_no`) VALUES (2, 201);
COMMIT;
-- Data for table `AIOA`.`go`
START TRANSACTION;
USE 'AIOA';
INSERT INTO `AIOA`.`go` (`station_station_code`, `train_train_no`) VALUES (4321102, 871);
INSERT\ INTO\ `AIOA`. `go`\ (`station\_station\_code`,\ `train\_train\_no`)\ VALUES\ (4321102,\ 2007);
INSERT INTO `AIOA`.`go` (`station_station_code`, `train_train_no`) VALUES (7123738, 570);
INSERT INTO `AIOA`.`go` ('station_station_code`, `train_train_no`) VALUES (7123738, 572);
INSERT\ INTO\ `AIOA`. `go`\ (`station\_station\_code`,\ `train\_train\_no`)\ VALUES\ (5433011,\ 2008);
INSERT INTO `AIOA`.`go` (`station_station_code`, `train_train_no`) VALUES (5433011, 88);
INSERT INTO `AIOA`.`go` ('station_station_code`, `train_train_no`) VALUES (81511, 99);
INSERT INTO `AIOA`.'go` ('station_station_code', 'train_train_no') VALUES (81511, 1056);
INSERT INTO `AIOA`.`go` ('station_station_code`, `train_train_no') VALUES (2073066, 2006);
INSERT INTO `AIOA`.`go` ('station_station_code', `train_train_no') VALUES (2073066, 77);
COMMIT;
SET SQL_MODE=@OLD_SQL_MODE;
SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS;
SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS;
```

### Workbench ER Diagram

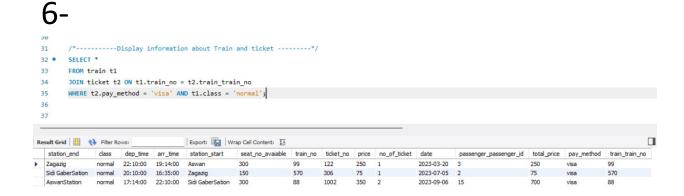


# Queries and their results



/*	[	Display a	ll Info	rmation about Passenge	er Table	*/		
SELECT * FROM PASSENGER;								
F_name	M_name	L_name	sex	address	phone	passenger_id		
ali	mohamed	Adel	male	12street,ramsis	NULL	1		
omar	mohamed	osama	male	Zagazig,Sharqia	120014699	2		
Ibrahim	Ahmed	Mohamed	male	13street,Kom Ombo,Aswan	1558842824	3		
Lames	Mohamed	ahmed	female	16street,New Asyut,Assuit	108842862	9		
sarah	omar	Abdullah	female	15 El Raml, Alexendra	1188428254	15		
ahmed	Ashraf	moahmed	male	12street, El marg,cairo	1288428242	20 HULL		

```
13
       /*-----Display full name Passenger That address in new Assuit------*/
       SELECT CONCAT(F_name, ' ', M_name, ' ', L_name) AS Passenger_name, passenger_id, address
       FROM PASSENGER
 15
       WHERE address LIKE '%New Asyut%';
 16
Export: Wrap Cell Content: IA
  Passenger_name
                   passenger_id
                              address
 Lames Mohamed ahmed
                             16street,New Asyut,Assuit
     /*----Display Passenger Name and distinct phone number Start by 012-----
     SELECT F_name, M_name, L_name AS Passenger_name, passenger_id
     FROM PASSENGER
    WHERE phone LIKE '12%';
        F_name
                    M_name
                                                         passenger_id
                                   Passenger_name
                    mohamed
                                                         2
       omar
                                  osama
                                                         20
                    Ashraf
       ahmed
                                  moahmed
      NULL
                   NULL
                                 NULL
                                                        NULL
```

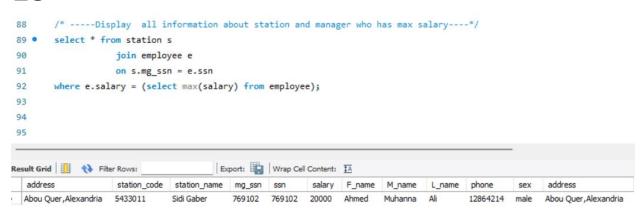


```
/*----*/
      SELECT e.ssn, CONCAT(e.F_name, ' ', e.M_name, ' ', e.L_name) AS employee_name, e.salary
60 •
      FROM employee e
61
      JOIN station s ON e.ssn = s.mg ssn
62
      WHERE s.station_name = 'Masr';
63
64
65
                                Export: Wrap Cell Content: IA
employee_name
                         salary
 256786
       Hussein Shehata Mohamed
                         10000
```

```
/*-----*/
     SELECT price FROM ticket t
67 •
     ORDER BY price DESC;
68
69
70
                          Export: Wrap Cell Content: IA
price
 350
 350
 250
 150
 150
 130
 75
 75
```

```
/*----Display number of ticket that revesed for each passenger----*/
        select CONCAT(F_name, ' ', M_name, ' ', L_name) AS Passenger_name
                  ,(select count(no_of_ticket) from ticket
 73
 74
                    where passenger_passenger_id = passenger.passenger_id ) As num_tickets_reserved
 75
        from passenger;
                                        Export: Wrap Cell Content: IA
Passenger_name
                       num_tickets_reserved
  ali mohamed Adel
  omar mohamed osama
  Ibrahim Ahmed Mohamed
  Lames Mohamed ahmed
  sarah omar Abdullah
  ahmed Ashraf moahmed
```

```
/*----Display information about ticket who passenger have more than 1 ticket-----*
 80 •
        select * from ticket t
        where passenger_passenger_id in
 81
                         (select passenger_passenger_id from ticket
 82
                          group by passenger_passenger_id
 83
 84
                          having count(no_of_ticket) > 1 ) and t.no_of_ticket > 1;
 85
 86
                                          | Edit: 🚄 🖶 | Export/Import: 🏣 👸 | Wrap Cell Content: 🔣
passenger_passenger_id total_price pay_method
   ticket_no price no_of_ticket
                             date
                                                                                   train_train_no
           75
                             2023-09-04
                                                                                   572
  201
                                                             450
                                                                       fawry
  202
           150
                 3
                             2023-05-16
                                                             450
                                                                                   871
                                                                       fawry
  256
           150
                                                             300
                                                                                   871
                             2023-04-06
                                                                       visa
                 NULL
                                        NULL
                                                                                  NULL
  NULL
           NULL
                             NULL
                                                                       NULL
```



```
/*-----Display information about ticket that reserved and start specific station-----*,
      select * from ticket
      where train_train_no in (select train_no from train t where t.station_start = 'Zagazig' );
Edit: 🚄 📆 Export/Import: 📳 📸 Wrap Cell Content: 🔣
               no_of_ticket
                           date
                                      passenger_passenger_id
                                                          total_price
                                                                    pay_method
                                                                                train_train_no
         price
306
         75
                           2023-07-05
                                                                                570
               1
                                     2
                                                          75
                                                                    visa
201
         75
               6
                          2023-09-04
                                     2
                                                          450
                                                                    fawry
                                                                               572
         NULL
              NULL
                                     NULL
                                                         NULL
                                                                               NULL
                                                                    NULL
```

### 17-

```
/*----Display information about train that leave in specific date----*/
109
        select station_start, station_end, dep_time, arr_time from train tr
110 •
111
        join ticket t on tr.train_no = t.train_train_no
        where t.date = '2023-03-20';
112
113
114
                                        Export: Wrap Cell Content: IA
station_start
              station_end
                         dep_time
                                  arr_time
  Aswan
              Zagazig
                        22:10:00
                                 19:14:00
```

```
115
         /*----Dispaly information about passenger who booked spacific tain----*/
        select distinct p.passenger id, p.F name, p.M name, p.L name, p.sex, p.address, p.phone,
116 •
117
                        t.train_no, t.station_start, t.station_end, t.dep_time, t.arr_time, t.class
118
         from passenger p
119
         join book b on p.passenger_id = b.passenger_passenger_id
120
         join ticket ti on b.ticket_ticket_no = ti.ticket_no
121
         join train t on ti.train_train_no = t.train_no
        where b.ticket_ticket_no = '1002';
122
123
124
Export: Wrap Cell Content: IA
  passenger_id F_name M_name L_name
                                             address
                                                                         train_no station_start
                                                              phone
                                                                                               station end dep time arr time
                                      sex
                              Abdullah female 15 El Raml, Alexendra 1188428254 88
                                                                                 Sidi GaberSation AswanStation 17:14:00 22:10:00 normal
```

