

-- 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\_DIVISION\_BY\_ZERO,NO\_ENGINE\_SUBSTITUTION';

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-- Schema airtravel

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-- Schema airtravel

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CREATE SCHEMA IF NOT EXISTS `airtravel` DEFAULT CHARACTER SET utf8 ;

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-- Schema airtravel

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-- Schema airtravel

-----

CREATE SCHEMA IF NOT EXISTS `airtravel` DEFAULT CHARACTER SET utf8mb4 COLLATE  
utf8mb4\_0900\_ai\_ci ;

USE `airtravel` ;

```
-----  
-- Table `airtravel`.`Premium_Passenger`  
-----
```

```
CREATE TABLE IF NOT EXISTS `airtravel`.`Premium_Passenger` (  
  `id` INT NOT NULL,  
  `prem_pass_id` VARCHAR(255) NOT NULL,  
  PRIMARY KEY (`prem_pass_id`, `id`),  
  INDEX `id_idx` (`id` ASC) VISIBLE,  
  CONSTRAINT `id`  
    FOREIGN KEY (`id`)  
    REFERENCES `airtravel`.`Passenger_Type` (`passenger_id`)  
    ON DELETE NO ACTION  
    ON UPDATE NO ACTION);
```

```
-----  
-- Table `airtravel`.`Regular_Passenger`  
-----
```

```
CREATE TABLE IF NOT EXISTS `airtravel`.`Regular_Passenger` (  
  `id` INT NOT NULL,  
  `regular_passenger_id` INT NOT NULL,  
  PRIMARY KEY (`id`, `regular_passenger_id`));
```

```
-----  
-- Table `airtravel`.`Foreign_Pilot`  
-----
```

```
CREATE TABLE IF NOT EXISTS `airtravel`.`Foreign_Pilot` (  
  `fp_id` INT NOT NULL,
```

```
`name` VARCHAR(15) NULL,  
`country` VARCHAR(32) NOT NULL,  
PRIMARY KEY (`fp_id`));
```

```
-----  
-- Table `airtravel`.`junior_pilots`  
-----
```

```
CREATE TABLE IF NOT EXISTS `airtravel`.`junior_pilots` (  
  `j_id` INT NOT NULL,  
  `name` VARCHAR(255) NOT NULL,  
  `age` INT NOT NULL,  
  PRIMARY KEY (`j_id`));
```

```
-----  
-- Table `airtravel`.`Passenger_References`  
-----
```

```
CREATE TABLE IF NOT EXISTS `airtravel`.`Passenger_References` (  
  `pas_ref_id` INT NOT NULL,  
  `pas_ref_name` VARCHAR(255) NOT NULL,  
  `pas_ref_contact` DOUBLE NOT NULL,  
  UNIQUE INDEX `pas_ref_name_UNIQUE` (`pas_ref_name` ASC) VISIBLE,  
  UNIQUE INDEX `pas_ref_contact_UNIQUE` (`pas_ref_contact` ASC) VISIBLE,  
  INDEX `pas_id_idx` (`pas_ref_id` ASC) VISIBLE);
```

```
-----  
-- Table `airtravel`.`passenger_child`  
-----
```

```
CREATE TABLE IF NOT EXISTS `airtravel`.`passenger_child` (  
  `passenger_id` INT NOT NULL,  
  `child_name` VARCHAR(255) NOT NULL,  
  `passenger name` VARCHAR(32) NOT NULL,  
  `passenger_age` TIMESTAMP NULL DEFAULT CURRENT_TIMESTAMP,  
  `passenger_email` VARCHAR(45) NULL,  
  `passenger_ticket_number` INT NULL,  
  `passenger_type` VARCHAR(45) NULL,  
  PRIMARY KEY (`passenger_id`, `child_name`));
```

```
-----  
-- Table `airtravel`.`Manager`  
-----
```

```
CREATE TABLE IF NOT EXISTS `airtravel`.`Manager` (  
  `pilot_id` INT NOT NULL,  
  `manager_id` INT NOT NULL,  
  `Manager_pilot_id` INT NOT NULL,  
  `Manager_manager_id` INT NOT NULL,  
  PRIMARY KEY (`pilot_id`, `manager_id`, `Manager_pilot_id`, `Manager_manager_id`),  
  INDEX `fk_Manager_Manager1_idx` (`Manager_pilot_id` ASC, `Manager_manager_id` ASC) VISIBLE,  
  CONSTRAINT `fk_Manager_Manager1`  
    FOREIGN KEY (`Manager_pilot_id`, `Manager_manager_id`)  
    REFERENCES `airtravel`.`Manager` (`pilot_id`, `manager_id`)  
    ON DELETE NO ACTION
```

ON UPDATE NO ACTION);

-----  
-- Table `airtravel`.`Manager`  
-----

```
CREATE TABLE IF NOT EXISTS `airtravel`.`Manager` (  
  `pilot_id` INT NOT NULL,  
  `manager_id` INT NOT NULL,  
  `Manager_pilot_id` INT NOT NULL,  
  `Manager_manager_id` INT NOT NULL,  
  PRIMARY KEY (`pilot_id`, `manager_id`, `Manager_pilot_id`, `Manager_manager_id`),  
  INDEX `fk_Manager_Manager1_idx` (`Manager_pilot_id` ASC, `Manager_manager_id` ASC) VISIBLE,  
  CONSTRAINT `fk_Manager_Manager1`  
    FOREIGN KEY (`Manager_pilot_id`, `Manager_manager_id`)  
    REFERENCES `airtravel`.`Manager` (`pilot_id`, `manager_id`)  
    ON DELETE NO ACTION  
    ON UPDATE NO ACTION)  
ENGINE = InnoDB  
DEFAULT CHARACTER SET = utf8mb4  
COLLATE = utf8mb4_0900_ai_ci;
```

-----  
-- Table `airtravel`.`pilot\_details`

```

-----
CREATE TABLE IF NOT EXISTS `airtravel`.`pilot_details` (
  `p_id` INT NOT NULL,
  `pilot_name` VARCHAR(15) NOT NULL,
  `pilot_age` INT NOT NULL,
  `pilot_gender` VARCHAR(10) NOT NULL,
  PRIMARY KEY (`p_id`),
  CONSTRAINT `pilot_details_ibfk_1`
    FOREIGN KEY (`p_id`)
      REFERENCES `airtravel`.`Manager` (`pilot_id`))
ENGINE = InnoDB
DEFAULT CHARACTER SET = utf8mb4
COLLATE = utf8mb4_0900_ai_ci;

```

```

-----
-- Table `airtravel`.`Flight`
-----

```

```

CREATE TABLE IF NOT EXISTS `airtravel`.`Flight` (
  `flight_number` INT NOT NULL,
  `flight_name` VARCHAR(255) NULL DEFAULT NULL,
  `password` VARCHAR(32) NOT NULL,
  `create_time` TIMESTAMP NULL DEFAULT CURRENT_TIMESTAMP,
  `pilot_id` INT NULL DEFAULT NULL,
  PRIMARY KEY (`flight_number`),
  INDEX `pilot_id` (`pilot_id` ASC) VISIBLE,
  CONSTRAINT `Flight_ibfk_1`

```

```

FOREIGN KEY (`pilot_id`)
REFERENCES `airtravel`.`pilot_details` (`p_id`)
ON DELETE CASCADE)
ENGINE = InnoDB
DEFAULT CHARACTER SET = utf8mb4
COLLATE = utf8mb4_0900_ai_ci;

-----
-- Table `airtravel`.`Ticket_Type`
-----

CREATE TABLE IF NOT EXISTS `airtravel`.`Ticket_Type` (
  `ticket_id` INT NOT NULL,
  `ticket_type_id` INT NOT NULL,
  PRIMARY KEY (`ticket_id`),
  INDEX `ticket_type_id_idx` (`ticket_type_id` ASC) VISIBLE,
  CONSTRAINT `ticket_type_id`
    FOREIGN KEY (`ticket_type_id`)
    REFERENCES `airtravel`.`Ticket` (`ticket_number`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION)
ENGINE = InnoDB
DEFAULT CHARACTER SET = utf8mb4
COLLATE = utf8mb4_0900_ai_ci;

```

```
-- Table `airtravel`.`Ticket`
```

```
CREATE TABLE IF NOT EXISTS `airtravel`.`Ticket` (  
  `ticket_number` INT NOT NULL,  
  `source` VARCHAR(255) NOT NULL,  
  `destination` VARCHAR(32) NOT NULL,  
  `starting_time` DATETIME NOT NULL,  
  `starting_terminal` VARCHAR(255) NOT NULL,  
  `destination_terminal` VARCHAR(45) NOT NULL,  
  `total_distance` DOUBLE NOT NULL,  
  `flight_number` INT NULL DEFAULT NULL,  
  `ticket_type_id` INT NOT NULL,  
  PRIMARY KEY (`ticket_number`),  
  INDEX `flight_number_idx` (`flight_number` ASC) VISIBLE,  
  INDEX `ticket_type_id_idx` (`ticket_type_id` ASC) VISIBLE,  
  CONSTRAINT `flight_number`  
    FOREIGN KEY (`flight_number`)  
    REFERENCES `airtravel`.`Flight` (`flight_number`)  
    ON DELETE RESTRICT  
    ON UPDATE RESTRICT,  
  CONSTRAINT `ticket_type_id`  
    FOREIGN KEY (`ticket_type_id`)  
    REFERENCES `airtravel`.`Ticket_Type` (`ticket_id`))  
ENGINE = InnoDB  
DEFAULT CHARACTER SET = utf8mb4  
COLLATE = utf8mb4_0900_ai_ci;
```



```
-----  
-- Table `airtravel`.`Passenger`  
-----
```

```
CREATE TABLE IF NOT EXISTS `airtravel`.`Passenger` (  
  `Name` VARCHAR(16) NOT NULL,  
  `Age` VARCHAR(255) NULL DEFAULT NULL,  
  `Email` VARCHAR(255) NOT NULL,  
  `Id` INT NOT NULL,  
  `ticket_number` INT NOT NULL,  
  PRIMARY KEY (`Id`),  
  UNIQUE INDEX `ticket_number_UNIQUE` (`ticket_number` ASC) VISIBLE,  
  CONSTRAINT `ticket_number`  
    FOREIGN KEY (`ticket_number`)  
      REFERENCES `airtravel`.`Ticket` (`ticket_number`)  
    ON DELETE NO ACTION  
    ON UPDATE NO ACTION)  
ENGINE = InnoDB  
DEFAULT CHARACTER SET = utf8mb4  
COLLATE = utf8mb4_0900_ai_ci;
```

```
-----  
-- Table `airtravel`.`Passenger_Type`  
-----
```

```
CREATE TABLE IF NOT EXISTS `airtravel`.`Passenger_Type` (  
  `passenger_id` INT NOT NULL,  
  `gender` VARCHAR(15) NOT NULL,  
  `disabled` TINYINT NOT NULL DEFAULT '0',  
  PRIMARY KEY (`passenger_id`),  
  CONSTRAINT `id`  
    FOREIGN KEY (`passenger_id`)  
      REFERENCES `airtravel`.`Passenger` (`Id`))  
ENGINE = InnoDB  
DEFAULT CHARACTER SET = utf8mb4  
COLLATE = utf8mb4_0900_ai_ci;
```

```
--  
-----  
-- Table `airtravel`.`Premium_Passenger`  
-----  
--
```

```
CREATE TABLE IF NOT EXISTS `airtravel`.`Premium_Passenger` (  
  `id` INT NOT NULL,  
  `prem_pass_id` VARCHAR(255) NOT NULL,  
  PRIMARY KEY (`prem_pass_id`, `id`),  
  INDEX `id_idx` (`id` ASC) VISIBLE,  
  CONSTRAINT `id`  
    FOREIGN KEY (`id`)  
      REFERENCES `airtravel`.`Passenger_Type` (`passenger_id`)  
  ON DELETE NO ACTION  
  ON UPDATE NO ACTION);
```

```

-----
-- Table `airtravel`.`passenger_reference`
-----

CREATE TABLE IF NOT EXISTS `airtravel`.`passenger_reference` (
  `pas_ref_id` INT NOT NULL,
  `pas_ref_name` VARCHAR(15) NOT NULL,
  `pas_ref_contact` DOUBLE NOT NULL,
  PRIMARY KEY (`pas_ref_id`),
  UNIQUE INDEX `pas_ref_contact_UNIQUE` (`pas_ref_contact` ASC) VISIBLE,
  CONSTRAINT `pas_ref_id`
    FOREIGN KEY (`pas_ref_id`)
      REFERENCES `airtravel`.`Passenger` (`Id`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION);

USE `airtravel`;

```

```

-----
-- Table `airtravel`.`Foreign_Pilot`
-----

CREATE TABLE IF NOT EXISTS `airtravel`.`Foreign_Pilot` (
  `fp_id` INT NOT NULL,
  `name` VARCHAR(15) NULL DEFAULT NULL,
  `country` VARCHAR(32) NOT NULL,

```

```
PRIMARY KEY (`fp_id`),  
CONSTRAINT `pilot_name`  
FOREIGN KEY (`fp_id`)  
REFERENCES `airtravel`.`pilot_details` (`p_id`))  
ENGINE = InnoDB  
DEFAULT CHARACTER SET = utf8mb4  
COLLATE = utf8mb4_0900_ai_ci;
```

```
-----  
-- Table `airtravel`.`Phone_No`  
-----
```

```
CREATE TABLE IF NOT EXISTS `airtravel`.`Phone_No` (  
  `phone_number` DOUBLE NOT NULL,  
  `phone_id` INT NOT NULL,  
  PRIMARY KEY (`phone_id`, `phone_number`),  
  CONSTRAINT `phone_id`  
  FOREIGN KEY (`phone_id`)  
  REFERENCES `airtravel`.`Passenger` (`Id`)  
  ON DELETE RESTRICT  
  ON UPDATE RESTRICT)  
ENGINE = InnoDB  
DEFAULT CHARACTER SET = utf8mb4  
COLLATE = utf8mb4_0900_ai_ci;
```

```

-----
-- Table `airtravel`.`Regular_Passenger`
-----

CREATE TABLE IF NOT EXISTS `airtravel`.`Regular_Passenger` (
  `id` INT NOT NULL,
  `regular_passenger_id` INT NOT NULL,
  PRIMARY KEY (`id`, `regular_passenger_id`),
  CONSTRAINT `passenger_id`
    FOREIGN KEY (`id`)
      REFERENCES `airtravel`.`Passenger_Type` (`passenger_id`))
ENGINE = InnoDB
DEFAULT CHARACTER SET = utf8mb4
COLLATE = utf8mb4_0900_ai_ci;

```

```

-----
-- Table `airtravel`.`junior_pilots`
-----

CREATE TABLE IF NOT EXISTS `airtravel`.`junior_pilots` (
  `j_id` INT NOT NULL,
  `name` VARCHAR(255) NOT NULL,
  `age` INT NOT NULL,
  PRIMARY KEY (`j_id`),
  CONSTRAINT `p_id`
    FOREIGN KEY (`j_id`)
      REFERENCES `airtravel`.`pilot_details` (`p_id`))

```

ENGINE = InnoDB

DEFAULT CHARACTER SET = utf8mb4

COLLATE = utf8mb4\_0900\_ai\_ci;

SET SQL\_MODE=@OLD\_SQL\_MODE;

SET FOREIGN\_KEY\_CHECKS=@OLD\_FOREIGN\_KEY\_CHECKS;

SET UNIQUE\_CHECKS=@OLD\_UNIQUE\_CHECKS;