

## DB FINAL: DDL List

### AIRPLANE

```
1  CREATE TABLE `airplane` (
2      `Airplane_id` int NOT NULL,
3      `Total_no_seats` int NOT NULL,
4      `Airplane_type` varchar(45) NOT NULL,
5      PRIMARY KEY (`Airplane_id`),
6      KEY `Airpl_airtype_idx` (`Airplane_type`),
7      CONSTRAINT `Airpl_airtype` FOREIGN KEY (`Airplane_type`) REFERENCES `airplane_type` (`Airplane_type_name`) ON DELETE CASCADE ON UPDATE CASCADE
8  ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

Column	Type	Default Value	Nullable	Character Set	Collation	Privileges
◇ Airplane_id	int		NO			select,insert,update,references
◇ Airplane_type	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
◇ Total_no_seats	int		NO			select,insert,update,references

### AIRPLANE\_TYPE

```
1  CREATE TABLE `airplane_type` (
2      `Airplane_type_name` varchar(45) NOT NULL,
3      `Max_seats` int NOT NULL,
4      `Company` varchar(45) NOT NULL,
5      PRIMARY KEY (`Airplane_type_name`),
6      CONSTRAINT `chk_seat` CHECK ((`Max_seats` <= 600))
7  ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

Column	Type	Default Value	Nullable	Character Set	Collation	Privileges
◇ Airplane_type_name	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
◇ Company	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
◇ Max_seats	int		NO			select,insert,update,references

### AIRPORT

```
1  CREATE TABLE `airport` (
2      `Airport_code` varchar(3) NOT NULL,
3      `Name` varchar(45) NOT NULL,
4      `City` varchar(45) NOT NULL,
5      `State` varchar(45) NOT NULL,
6      PRIMARY KEY (`Airport_code`)
7  ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci
```

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Column	Type	Default Value	Nullable	Character Set	Collation	Privileges
◊ Airport_code	varchar(3)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
◊ City	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
◊ Name	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
◊ State	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references

### CAN\_LAND

```

1  ◇ CREATE TABLE `can_land` (
2      `Airplane_type_name` varchar(45) NOT NULL,
3      `Airport_code` varchar(3) NOT NULL,
4      PRIMARY KEY (`Airplane_type_name`,`Airport_code`),
5      KEY `Airp_idx` (`Airport_code`),
6      CONSTRAINT `Airp` FOREIGN KEY (`Airport_code`) REFERENCES `airport` (`Airport_code`) ON DELETE CASCADE ON UPDATE CASCADE,
7      CONSTRAINT `Land_Pltyp` FOREIGN KEY (`Airplane_type_name`) REFERENCES `airplane_type` (`Airplane_type_name`) ON DELETE CASCADE ON UPDATE CASCADE
8  ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci

```

Column	Type	Default Value	Nullable	Character Set	Collation	Privileges
◊ Airplane_type_name	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
◊ Airport_code	varchar(3)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references

### FARE

```

1  ◇ CREATE TABLE `fare` (
2      `Flight_number` int NOT NULL,
3      `Fare_code` int NOT NULL,
4      `Amount` decimal(20,2) NOT NULL,
5      `Restrictions` varchar(45) DEFAULT NULL,
6      PRIMARY KEY (`Fare_code`, `Flight_number`),
7      KEY `Fare_flno_idx` (`Flight_number`),
8      CONSTRAINT `Fare_flno` FOREIGN KEY (`Flight_number`) REFERENCES `flight` (`Flight_number`) ON DELETE CASCADE ON UPDATE CASCADE,
9      CONSTRAINT `chk_fare` CHECK (((`Amount` <= 75000.00) and (`Amount` >= 0)))
10     ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci

```

Column	Type	Default Value	Nullable	Character Set	Collation	Privileges
◊ Amount	decimal(20,2)		NO			select,insert,update,references
◊ Fare_code	int		NO			select,insert,update,references
◊ Flight_number	int		NO			select,insert,update,references
◊ Restrictions	varchar(45)		YES	utf8mb4	utf8mb4_0900_...	select,insert,update,references

### FLIGHT

```

1  ◇ CREATE TABLE `flight` (
2      `Flight_number` int NOT NULL,
3      `Airline` varchar(45) NOT NULL,
4      `Weekdays` varchar(45) NOT NULL,
5      PRIMARY KEY (`Flight_number`),
6      UNIQUE KEY `Flight_number_UNIQUE` (`Flight_number`)
7  ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci

```

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Column	Type	Default Value	Nullable	Character Set	Collation	Privileges
◊ Airline	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
◊ Flight_number	int		NO			select,insert,update,references
◊ Weekdays	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references

### FLIGHT\_LEG

```

1  CREATE TABLE `flight_leg` (
2      `Flight_number` int NOT NULL,
3      `Leg_number` int NOT NULL,
4      `Dept_airport_code` varchar(3) NOT NULL,
5      `Arr_airport_code` varchar(3) NOT NULL,
6      `Sched_dept_time` time NOT NULL,
7      `Sched_Arr_time` time NOT NULL,
8      PRIMARY KEY (`Flight_number`,`Leg_number`),
9      KEY `FLeg_LegNo_idx` (`Leg_number`),
10     KEY `FLeg_airpt_idx` (`Dept_airport_code`, `Arr_airport_code`),
11     KEY `Fleg_Arr_idx` (`Arr_airport_code`),
12     CONSTRAINT `Fleg_Arr` FOREIGN KEY (`Arr_airport_code`) REFERENCES `airport` (`Airport_code`) ON DELETE CASCADE ON UPDATE CASCADE,
13     CONSTRAINT `Fleg_Dept` FOREIGN KEY (`Dept_airport_code`) REFERENCES `airport` (`Airport_code`) ON DELETE CASCADE ON UPDATE CASCADE,
14     CONSTRAINT `FLeg_FlNo` FOREIGN KEY (`Flight_number`) REFERENCES `flight` (`Flight_number`) ON DELETE CASCADE ON UPDATE CASCADE,
15     CONSTRAINT `Fleg_legno` FOREIGN KEY (`Leg_number`) REFERENCES `leg_instance` (`Leg_number`) ON DELETE CASCADE ON UPDATE CASCADE
16 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci

```

Column	Type	Default Value	Nullable	Character Set	Collation	Privileges
◊ Arr_airport_code	varchar(3)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
◊ Dept_airport_code	varchar(3)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
◊ Flight_number	int		NO			select,insert,update,references
◊ Leg_number	int		NO			select,insert,update,references
◊ Sched_Arr_time	time		NO			select,insert,update,references
◊ Sched_dept_time	time		NO			select,insert,update,references

### LEG\_INSTANCE

## DB FINAL: DDL List

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```

1  CREATE TABLE `leg_instance` (
2      `Flight_number` int NOT NULL,
3      `Leg_number` int NOT NULL,
4      `Date` date NOT NULL,
5      `No_avail_seats` int NOT NULL,
6      `Airplane_id` int NOT NULL,
7      `Dept_airport_code` varchar(3) NOT NULL,
8      `Arr_airport_code` varchar(3) NOT NULL,
9      `Dept_time` time NOT NULL,
10     `Arr_time` time NOT NULL,
11     PRIMARY KEY (`Leg_number`, `Flight_number`, `Date`),
12     KEY `Leg_FNO` (`Flight_number`),
13     KEY `Leg_DATE` (`Date`),
14     KEY `Leg_aircode_idx` (`Dept_airport_code`),
15     KEY `leg_arrcode_idx` (`Arr_airport_code`),
16     CONSTRAINT `Leg_aircode` FOREIGN KEY (`Dept_airport_code`) REFERENCES `airport` (`Airport_code`) ON DELETE CASCADE ON UPDATE CASCADE,
17     CONSTRAINT `leg_arrcode` FOREIGN KEY (`Arr_airport_code`) REFERENCES `airport` (`Airport_code`) ON DELETE CASCADE ON UPDATE CASCADE,
18     CONSTRAINT `Leg_fno` FOREIGN KEY (`Flight_number`) REFERENCES `flight` (`Flight_number`) ON DELETE CASCADE ON UPDATE CASCADE,
19     CONSTRAINT `chk_leg` CHECK ((`Leg_number` <= 4))
20 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci

```

Column	Type	Default Value	Nullable	Character Set	Collation	Privileges
◆ Airplane_id	int		NO			select,insert,update,references
◆ Arr_airport_code	varchar(3)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
◆ Arr_time	time		NO			select,insert,update,references
◆ Date	date		NO			select,insert,update,references
◆ Dept_airport_code	varchar(3)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
◆ Dept_time	time		NO			select,insert,update,references
◆ Flight_number	int		NO			select,insert,update,references
◆ Leg_number	int		NO			select,insert,update,references
◆ No_avail_seats	int		NO			select,insert,update,references

## SEAT\_RESERVATION

---

```

1  CREATE TABLE `seat_reservation` (
2      `Flight_number` int NOT NULL,
3      `Leg_number` int NOT NULL,
4      `Date` date NOT NULL,
5      `Seat_number` int NOT NULL,
6      `Customer_name` varchar(45) NOT NULL,
7      `Customer_phone` varchar(45) NOT NULL,
8      PRIMARY KEY (`Seat_number`, `Flight_number`, `Leg_number`, `Date`),
9      KEY `Seat_Legno_idx` (`Leg_number`) /*!80000 INVISIBLE */,
10     KEY `Seat_date_idx` (`Date`),
11     KEY `Seat_leg_idx` (`Date`),
12     KEY `SEAT_fl` (`Flight_number`) /*!80000 INVISIBLE */,
13     KEY `SEAT_leg` (`Leg_number`) /*!80000 INVISIBLE */,
14     KEY `SEAT_date` (`Date`),
15     CONSTRAINT `Seat_date` FOREIGN KEY (`Date`) REFERENCES `leg_instance` (`Date`) ON DELETE CASCADE ON UPDATE CASCADE,
16     CONSTRAINT `Seat_legno` FOREIGN KEY (`Leg_number`) REFERENCES `leg_instance` (`Leg_number`) ON DELETE CASCADE ON UPDATE CASCADE,
17     CONSTRAINT `Stea_fno` FOREIGN KEY (`Flight_number`) REFERENCES `flight` (`Flight_number`) ON DELETE CASCADE ON UPDATE CASCADE
18 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci

```

Column	Type	Default Value	Nullable	Character Set	Collation	Privileges
◆ Customer_name	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
◆ Customer_phone	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
◆ Date	date		NO			select,insert,update,references
◆ Flight_number	int		NO			select,insert,update,references
◆ Leg_number	int		NO			select,insert,update,references
◆ Seat_number	int		NO			select,insert,update,references