

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 `Airlp_idx` (`Airport_code`),  
6   CONSTRAINT `Airlp` 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_fln_idx` (`Flight_number`),  
8   CONSTRAINT `Fare_fln` 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

```
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