Airline Management System – DDL

Table Name: AIRPORTS

COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
AIRPORT_CODE	VARCHAR2(3 BYTE)	No	(null)	1	(null)
AIRPORT_NAME	VARCHAR2(80 BYTE)	Yes	(null)	2	(null)
CITY	VARCHAR2(80 BYTE)	Yes	(null)	3	(null)
STATE	VARCHAR2(80 BYTE)	Yes	(null)	4	(null)
AIRPORT_CLASS	VARCHAR2(8 BYTE)	Yes	(null)	5	(null)

```
CREATE TABLE "DB101"."AIRPORTS"
  (   "AIRPORT_CODE" VARCHAR2(3 BYTE) NOT NULL ENABLE,
      "AIRPORT_NAME" VARCHAR2(80 BYTE),
      "CITY" VARCHAR2(80 BYTE),
      "STATE" VARCHAR2(80 BYTE),
      "AIRPORT_CLASS" VARCHAR2(8 BYTE),
      CONSTRAINT "AIRCODE_PK" PRIMARY KEY ("AIRPORT_CODE")
      ENABLE
  )
```

Table Name: AIRCRAFTS

COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
FLIGHT_NUMBER	VARCHAR2(20 BYTE)	No	(null)	1	(null)
MODEL_ID	NUMBER	No	(null)	2	(null)
TAIL_NUMBER	VARCHAR2(20 BYTE)	Yes	(null)	3	(null)

```
CREATE TABLE "DB101"."AIRCRAFT"
  (   "FLIGHT_NUMBER" VARCHAR2(20 BYTE) NOT NULL ENABLE,
      "MODEL_ID" NUMBER NOT NULL ENABLE,
      "TAIL_NUMBER" VARCHAR2(20 BYTE),
      CONSTRAINT "AIRCRAFT_PK" PRIMARY KEY ("FLIGHT_NUMBER")
  )
```

Table Name: AIRCRAFT_MODEL

	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1	AIRCRAFT_MODEL_ID	VARCHAR2(20 BYTE)	No	(null)	1	(null)
2	MANUFACTURER	VARCHAR2(20 BYTE)	Yes	(null)	2	(null)
3	CAPACITY	VARCHAR2(20 BYTE)	Yes	(null)	3	(null)
4	MODEL	VARCHAR2(20 BYTE)	Yes	(null)	4	(null)

```
CREATE TABLE "DB101"."AIRCRAFT_MODEL"
  (   "AIRCRAFT_MODEL_ID" VARCHAR2(20 BYTE) NOT NULL ENABLE,
      "MANUFACTURER" VARCHAR2(20 BYTE),
      "CAPACITY" VARCHAR2(20 BYTE),
      "MODEL" VARCHAR2(20 BYTE),
      CONSTRAINT "AIRCRAFT_MODEL_PK" PRIMARY KEY ("AIRCRAFT_MODEL_ID")
      ENABLE
  )
```

Table Name: PASSENGER

COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
PASSENGER_ID	VARCHAR2(128 BYTE)	No	(null)	1	(null)
FIRST_NAME	VARCHAR2(128 BYTE)	Yes	(null)	2	(null)
MIDDLE_NAME	VARCHAR2(128 BYTE)	Yes	(null)	3	(null)
LAST_NAME	VARCHAR2(128 BYTE)	Yes	(null)	4	(null)
PHONE_NUMBER	VARCHAR2(128 BYTE)	Yes	(null)	5	(null)
EMAIL_ADDRESS	VARCHAR2(128 BYTE)	Yes	(null)	6	(null)
STREET_ADDRESS	VARCHAR2(128 BYTE)	Yes	(null)	7	(null)
CITY	VARCHAR2(128 BYTE)	Yes	(null)	8	(null)
STATE	VARCHAR2(128 BYTE)	Yes	(null)	9	(null)
ZIPCODE	VARCHAR2(128 BYTE)	Yes	(null)	10	(null)

```
CREATE TABLE "DB101"."PASSENGER"
  (
    "PASSENGER_ID" VARCHAR2(128 BYTE) NOT NULL ENABLE,
    "FIRST_NAME" VARCHAR2(128 BYTE),
    "MIDDLE_NAME" VARCHAR2(128 BYTE),
    "LAST_NAME" VARCHAR2(128 BYTE),
    "PHONE_NUMBER" VARCHAR2(128 BYTE),
    "EMAIL_ADDRESS" VARCHAR2(128 BYTE),
    "STREET_ADDRESS" VARCHAR2(128 BYTE),
    "CITY" VARCHAR2(128 BYTE),
    "STATE" VARCHAR2(128 BYTE),
    "ZIPCODE" VARCHAR2(128 BYTE),
    CONSTRAINT "PASSENGER_PK" PRIMARY KEY ("PASSENGER_ID")
    ENABLE
  )
```

Table Name: RESERVATION

COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
RESERVATION_ID	VARCHAR2(20 BYTE)	No	(null)	1	(null)
PASSENGER_ID	VARCHAR2(128 BYTE)	Yes	(null)	2	(null)
STATUS	VARCHAR2(20 BYTE)	Yes	(null)	3	(null)
TICKET_TYPE_ID	VARCHAR2(20 BYTE)	Yes	(null)	4	(null)
TRAVEL_CLASS	VARCHAR2(20 BYTE)	Yes	(null)	5	(null)
TRAVEL_DATE	VARCHAR2(20 BYTE)	Yes	(null)	6	(null)
RESERVATION_DATE	VARCHAR2(20 BYTE)	Yes	(null)	7	(null)

Table Name: PAYMENTS

COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
PAYMENT_ID	VARCHAR2(20 BYTE)	No	(null)	1	(null)
RESERVATION_ID	VARCHAR2(20 BYTE)	Yes	(null)	2	(null)
PAYMENT_STATUS	VARCHAR2(20 BYTE)	Yes	(null)	3	(null)
TOTAL_PAYMENT	VARCHAR2(20 BYTE)	Yes	(null)	4	(null)
PAYMENT_DATE	DATE	Yes	(null)	5	(null)

Table Name: FLIGHT_SCHEDULE

COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
FLIGHT_NUMBER	VARCHAR2(26 BYTE)	No	(null)	1	(null)
ORIGIN_AIRPORT_CODE	VARCHAR2(3 BYTE)	Yes	(null)	2	(null)
DESTINATION_AIRPORT_CODE	VARCHAR2(3 BYTE)	Yes	(null)	3	(null)
DEPARTURE_TIME	VARCHAR2(8 BYTE)	Yes	(null)	4	(null)
ARRIVAL_TIME	VARCHAR2(8 BYTE)	Yes	(null)	5	(null)

```sql
CREATE TABLE "DB101"."FLIGHT_SCHEDULE"
  (   "FLIGHT_NUMBER" VARCHAR2(26 BYTE) NOT NULL ENABLE,
      "ORIGIN_AIRPORT_CODE" VARCHAR2(3 BYTE),
      "DESTINATION_AIRPORT_CODE" VARCHAR2(3 BYTE),
      "DEPARTURE_TIME" VARCHAR2(8 BYTE),
      "ARRIVAL_TIME" VARCHAR2(8 BYTE),
      CONSTRAINT "FLIGHT_SCHEDULE_PK" PRIMARY KEY ("FLIGHT_NUMBER")
      CONSTRAINT "ORIGIN_AIRPORT_CODE_F" FOREIGN KEY ("ORIGIN_AIRPORT_CODE")
      REFERENCES "DB101"."AIRPORTS" ("AIRPORT_CODE") ENABLE,
      CONSTRAINT "DESTINATION_AIRPORT_CODE_F" FOREIGN KEY ("DESTINATION_AIRPORT_CODE")
      REFERENCES "DB101"."AIRPORTS" ("AIRPORT_CODE") ENABLE
  )
```

Table Name: FLIGHT_FARE

COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
FLIGHT_LEGID	VARCHAR2(20 BYTE)	No	(null)	1	(null)
CLASS	VARCHAR2(20 BYTE)	No	(null)	2	(null)
FLIGHT_FARE	VARCHAR2(20 BYTE)	No	(null)	3	(null)

```sql
CREATE TABLE "DB101"."FLIGHT_FARE"
  (   "FLIGHT_LEGID" VARCHAR2(20 BYTE) NOT NULL ENABLE,
   "CLASS" VARCHAR2(20 BYTE) NOT NULL ENABLE,
   "FLIGHT_FARE" VARCHAR2(20 BYTE) NOT NULL ENABLE,
    CONSTRAINT "LEG_ID_FF_PK" PRIMARY KEY ("FLIGHT_LEGID", "CLASS")
    ENABLE
  )
```

Table Name: LEGS

COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
LEG_ID	VARCHAR2(20 BYTE)	No	(null)	1	(null)
FLIGHT_NUMBER	VARCHAR2(20 BYTE)	No	(null)	2	(null)
ORIGIN_AIRPORT_CODE	VARCHAR2(20 BYTE)	No	(null)	3	(null)
DESTINATION_AIRPORT_CODE	VARCHAR2(20 BYTE)	No	(null)	4	(null)
DEPARTURE_TIME	VARCHAR2(20 BYTE)	Yes	(null)	5	(null)
ARRIVAL_TIME	VARCHAR2(20 BYTE)	Yes	(null)	6	(null)

```sql
CREATE TABLE "DB101"."LEGS"
  (
   "LEG_ID" VARCHAR2(20 BYTE) NOT NULL ENABLE,
   "FLIGHT_NUMBER" VARCHAR2(20 BYTE) NOT NULL ENABLE,
   "ORIGIN_AIRPORT_CODE" VARCHAR2(20 BYTE) NOT NULL ENABLE,
   "DESTINATION_AIRPORT_CODE" VARCHAR2(20 BYTE) NOT NULL ENABLE,
   "DEPARTURE_TIME" VARCHAR2(20 BYTE),
   "ARRIVAL_TIME" VARCHAR2(20 BYTE),
   CONSTRAINT "LEG_ID_PK" PRIMARY KEY ("LEG_ID")
   USING INDEX PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS
   STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645
   PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1
   BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT CELL_FLASH_CACHE DEFAULT)
   TABLESPACE "STUDENTS"  ENABLE,
   CONSTRAINT "DEST_FK" FOREIGN KEY ("DESTINATION_AIRPORT_CODE")
   REFERENCES "DB101"."AIRPORTS" ("AIRPORT_CODE") ENABLE,
   CONSTRAINT "ORG_FK" FOREIGN KEY ("ORIGIN_AIRPORT_CODE")
   REFERENCES "DB101"."AIRPORTS" ("AIRPORT_CODE") ENABLE
  )
```

Table Name: ITINERARY_LEGS

COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
LEG_ID	VARCHAR2(20 BYTE)	Yes	(null)	1	(null)
RESERVATION_ID	VARCHAR2(20 BYTE)	Yes	(null)	2	(null)

```sql
CREATE TABLE "DB101"."ITINERARY_LEGS"
  (
   "LEG_ID" VARCHAR2(20 BYTE),
   "RESERVATION_ID" VARCHAR2(20 BYTE),
   CONSTRAINT "RESERVATION_ID_FK" FOREIGN KEY ("RESERVATION_ID")
   REFERENCES "DB101"."RESERVATION" ("RESERVATION_ID") ENABLE,
   CONSTRAINT "LEG_ID_FK" FOREIGN KEY ("LEG_ID")
   REFERENCES "DB101"."LEGS" ("LEG_ID") ENABLE
  )
```