**CREATE** **TABLE** flights\_db.airport (

faa **varchar**(10) **NOT** **NULL**,

name **varchar**(100) **NULL**,

lat **FLOAT** **NULL**,

lon **FLOAT** **NULL**,

alt **INT** **NULL**,

tz **INT** **NULL**,

dst **varchar**(20) **NULL**,

tzone **varchar**(50) **NULL**,

**CONSTRAINT** airport\_pk **PRIMARY** **KEY** (faa)

)

**ENGINE**=InnoDB

**DEFAULT** CHARSET=utf8mb4

**COLLATE**=utf8mb4\_0900\_ai\_ci;

**CREATE** **TABLE** flights\_db.planes (

tailnum **varchar**(20) **NOT** **NULL**,

**year** **int** **NULL**,

**type** **varchar** (50) **NULL**,

manufacturer **varchar**(50) **NULL**,

model **varchar**(50) **NULL**,

engines **int** **NULL**,

seats **int** **NULL**,

speed **varchar**(10) **NULL**,

**engine** **varchar**(20) **NULL**,

**CONSTRAINT** planes\_pk **PRIMARY** **KEY** (tailnum)

)

**CREATE** **TABLE** flights\_db.weather (

origin **varchar** (10) **NULL**,

**year** **int** **NULL**,

**month** **int** **NULL**,

**day** **int** **NULL**,

**hour** **int** **NULL**,

temp **varchar** (30) **NULL**,

dewp **varchar** (30) **NULL**,

humid **varchar** (30) **NULL**,

wind\_dir **varchar** (30) **NULL**,

wind\_speed **varchar** (30) **NULL**,

wind\_gust **varchar** (30) **NULL**,

precip **float** **NULL**,

pressure **varchar** (30) **NULL**,

visib **int** **NULL**,

time\_hour **varchar** (30) **NULL**

)

**ENGINE**=InnoDB

**DEFAULT** CHARSET=utf8mb4

**COLLATE**=utf8mb4\_0900\_ai\_ci;

**ALTER** **TABLE** flights\_db.weather **ADD** **CONSTRAINT** weather\_pk **PRIMARY** **KEY** (**`year`**,**`month`**,**`day`**,**`hour`**,origin);

**CREATE** **TABLE** flights\_db.flights (

**year** **int** **NULL**,

**month** **int** **NULL**,

**day** **int** **NULL**,

dep\_time **varchar** (30) **NULL**,

sched\_dep\_time **varchar** (30) **NULL**,

dep\_delay **varchar** (30) **NULL**,

arr\_time **varchar** (30) **NULL**,

sched\_arr\_time **varchar** (30) **NULL**,

arr\_delay **varchar** (30) **NULL**,

carrier **varchar** (10) **NULL**,

flight **int** **NULL**,

tailnum **varchar** (20) **NULL**,

origin **varchar** (10) **NULL**,

dest **varchar** (10) **NULL**,

air\_time **varchar** (30) **NULL**,

distance **varchar** (30) **NULL**,

**hour** **int** **NULL**,

**minute** **int** **NULL**,

time\_hour **varchar** (30) **NULL**

)

**ENGINE**=InnoDB

**DEFAULT** CHARSET=utf8mb4

**COLLATE**=utf8mb4\_0900\_ai\_ci;

**ALTER** **TABLE** flights\_db.flights **ADD** **CONSTRAINT** flights\_pk **PRIMARY** **KEY** (**`year`**,**`month`**,**`day`**,**`hour`**,flight);

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**ALTER** **TABLE** flights\_db.flights **ADD** **CONSTRAINT** flights\_airport\_FK **FOREIGN** **KEY** (origin) **REFERENCES** flights\_db.airport(faa);

**ALTER** **TABLE** flights\_db.flights **ADD** **CONSTRAINT** flights\_planes\_FK **FOREIGN** **KEY** (tailnum) **REFERENCES** flights\_db.planes(tailnum);

**ALTER** **TABLE** flights\_db.flights **ADD** **CONSTRAINT** flights\_airlines\_FK **FOREIGN** **KEY** (carrier) **REFERENCES** flights\_db.airlines(carrier);

**ALTER** **TABLE** flights\_db.flights **ADD** **CONSTRAINT** flights\_weather\_FK **FOREIGN** **KEY** (**`year`**,**`month`**,**`day`**,**`hour`**,origin) **REFERENCES** flights\_db.weather(**`year`**,**`month`**,**`day`**,**`hour`**,origin);