

BD

WIOLETTA ŁUPKOWSKA, 244831

PONIEDZIAŁEK 15:15

LISTA 6

1.1

-- A)

```
SELECT @x:=ABS((SELECT longitudeStopnie FROM airports where kodICAO = "BGSF")- (SELECT longitudeStopnie FROM airports where kodICAO = "BGTL")) AS roznicaStopnie,
```

```
@x:= @x*4 as roznicaStopnieWMinutach,
```

```
@y:=ABS((SELECT longitudeMinuty FROM airports where kodICAO = "BGSF")- (SELECT longitudeMinuty FROM airports where kodICAO = "BGTL")) AS roznicaMinuty ,
```

```
@z:= ABS(@x+@y*1/15) AS wynik;
```

-- B)

```
SELECT @g:=11, @m:=5, @s:=4, @t1:=MAKETIME(@g, @m, @s) as godzina1,
```

```
@godziny:=@z/60 as pelneGodziny, @minuty:=@m-@godziny as roznicaMinut, @g2:=@g+@godziny as godzina2 , @m2:=@m+@minuty as minuty2, @t2:=MAKETIME(@g2,@m2,@s) as godzina2;
```

-- C)

```
SELECT nazwa, JSON_OBJECTAGG(kodICAO, kodIATA) FROM airports WHERE kraj="Poland" GROUP BY nazwa;
```

-- D)

```
SELECT concat( "LOT OD: ", (select nazwa from airports where kodICAO = "BGSF") ,
```

```
" (", (select kodIATA from airports where kodICAO = "BGSF"), ") ",
```

```
" DO: ", (select nazwa from airports where kodICAO = "BGTL"),
```

```
" (", (select nazwa from airports where kodICAO = "BGTL"), ") ",
```

```
"DATA ", CURDATE()) AS bilecik;
```

-- E)

```
SELECT concat( "LOT OD: ", (select nazwa from airports where kodICAO = "BGSF") ,
```

```
" (" , (select kodIATA from airports where kodICAO = "BGSF"), " ) ",
" DO: " , (select nazwa from airports where kodICAO = "BGTL"),
" (" , (select nazwa from airports where kodICAO = "BGTL"), " ) ",
"DATA " , CURDATE()," DZIEN: " , DAYOFWEEK(CURDATE())) AS bilecik;
```

```
-- F)
```

```
SELECT @x:=(SELECT SUM(longitudeStopnie) FROM airports where kodIATA = "LAX" or kodIATA =
"SIN") as sumaStopni,
```

```
@y:=(SELECT SUM(longitudeMinuty) FROM airports where kodIATA = "LAX" or kodIATA = "SIN") as
sumaMinut,
```

```
@z:=@x+@y*(1/60) as roznicaGeograficznaStopnie, @v:=@z*4 as roznicaCzasowaZegarowa;
```

```
SELECT DATE_ADD("2017-11-10 22:25:00", INTERVAL -@V+120 MINUTE) AS
dataGodzinaWylotuWSingapurze;
```

```
SELECT DATE_ADD(DATE_ADD("2017-11-10 22:25:00", INTERVAL -@V+120 MINUTE),INTERVAL
17*60+50 MINUTE) AS dataGodzinaPrzylotuWSingapurze;
```

```
-- G)
```

```
SELECT @x1:=(SELECT (latitudeStopnie+latitudeMinuty*(1/60)) FROM airports where kodIATA =
"LAX") as latitudeLAX,
```

```
@x2:=(SELECT (latitudeStopnie+latitudeMinuty*(1/60)) FROM airports where kodIATA = "SIN") as
latitudeSIN,
```

```
@y1:=(SELECT (longitudeStopnie+longitudeMinuty*(1/60)) FROM airports where kodIATA = "LAX")
AS longitudeLAX,
```

```
@y2:=(SELECT (longitudeStopnie+longitudeMinuty*(1/60)) FROM airports where kodIATA = "SIN")
AS longitudeSIN,
```

```
@w:=SQRT(POW((@x2-@x1),2) + POW((COS((@x1*PI())/180) * (@y2-@y1),2)) * (40075.704/360)
as wynik;
```

```
-- H)
```

```
SELECT concat( kodICAO, ":", kodIATA, ":", nazwa, ":", kraj, ":", latitudeStopnie, ":", latitudeMinuty,
":", latitudeSekundy, ":", kierunekLatitude, ":", longitudeStopnie, ":", longitudeMinuty, ":",
longitudeSekundy, ":", kierunekLongitude) as opis from airports WHERE kodICAO="EDDM";
```

-- I)

SELECT @x:=(SELECT max(latitudeStopnie) from airports where kierunekLatitude="N") as x,

@y:=(SELECT max(latitudeStopnie) from airports where kierunekLatitude="S") as y,

@z:=@x+@y as rozciaglosc;

SELECT * from airports WHERE latitudeStopnie=(SELECT max(latitudeStopnie) from airports where kierunekLatitude="N")

OR latitudeStopnie=(SELECT max(latitudeStopnie) from airports where kierunekLatitude="S");

-- J)

SELECT @z*111.2 as rozciagloscKM;

1.2

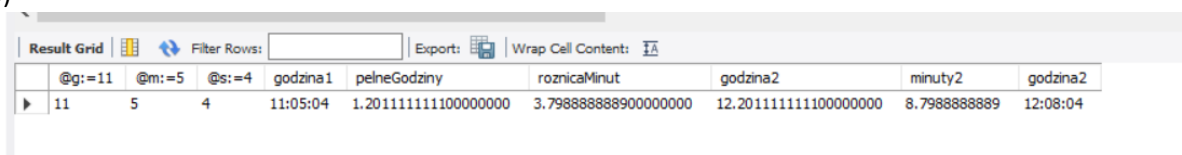


The screenshot shows a 'Result Grid' window with a single row of data. The columns are labeled: 'roznicaStopnie', 'roznicaStopnieWMinutach', 'roznicaMinuty', and 'wynik'. The values in the row are 18, 72, 1, and 72.06666666 respectively. The window also includes a 'Filter Rows' field, an 'Export' button, and a 'Wrap Cell Content' checkbox.

	roznicaStopnie	roznicaStopnieWMinutach	roznicaMinuty	wynik
▶	18	72	1	72.06666666

A)

B)



The screenshot shows a 'Result Grid' window with a single row of data. The columns are labeled: '@g:=11', '@m:=5', '@s:=4', 'godzina1', 'pelneGodziny', 'roznicaMinut', 'godzina2', 'minuty2', and 'godzina2'. The values in the row are 11, 5, 4, 11:05:04, 1.201111111100000000, 3.798888888900000000, 12.201111111100000000, 8.7988888889, and 12:08:04 respectively. The window also includes a 'Filter Rows' field, an 'Export' button, and a 'Wrap Cell Content' checkbox.

	@g:=11	@m:=5	@s:=4	godzina1	pelneGodziny	roznicaMinut	godzina2	minuty2	godzina2
▶	11	5	4	11:05:04	1.201111111100000000	3.798888888900000000	12.201111111100000000	8.7988888889	12:08:04

Result Grid		
	Filter Rows:	
	Export:	Wrap Cell Content:
nazwa	JSON_OBJECTAGG(kodICAO, kodIATA)	
BABIMOST	{ "EPZG": "IEG" }	
BALICE JP II INTERNATIONAL AIRPORT	{ "EPKK": "KRK" }	
DABIE	{ "EPSD": "N/A" }	
GOLENIOW	{ "EPSC": "SZZ" }	
JASIONKA	{ "EPRZ": "RZE" }	
LAWICA	{ "EPPO": "POZ" }	
LUBLINEK	{ "EPLL": "N/A" }	
MIELEC	{ "EPML": "N/A" }	
MUCHOWIEC	{ "EPKM": "N/A" }	
N/A	{ "EPBC": "N/A", "EPBK": "N/A", "EPGI": "N/A", "...	
OKECIE	{ "EPWA": "WAW" }	
PYRZOWICE	{ "EPKT": "KTW" }	
REBIECHOWO	{ "EPGD": "GDN" }	
REDZIKOWO	{ "EPSK": "OSP" }	
STRACHOWICE	{ "EPWR": "WRO" }	
ZEGRZE POMORSKIE	{ "EPKO": "N/A" }	

C)

D)

Result Grid		
	Filter Rows:	
	Export:	Wrap Cell Content:
bilecik		
▶	LOT OD: KANGERLUSSUAQ SONDRE STROMFJORD (SFJ) DO: THULE AIR BASE (THU) DATA 2019-11-18	

E)

Result Grid		
	Filter Rows:	
	Export:	Wrap Cell Content:
bilecik		
▶	LOT OD: KANGERLUSSUAQ SONDRE STROMFJORD (SFJ) DO: THULE AIR BASE (THU) DATA 2019-11-18 DZIEŃ: 2	

F)

Result Grid				
	sumaStopni	sumaMinut	roznicaGeograficznaStopnie	roznicaCzasowaZegarowa
▶	221	83	222.383333278	889.533333112

Result Grid	
	dataGodzinaWylotuWSingapurze
▶	2017-11-10 09:35:00

Result Grid	
	dataGodzinaPrzylotuWSingapurze
▶	2017-11-11 03:25:00

G)

Result Grid					
	latitudeLAX	latitudeSIN	longitudeLAX	longitudeSIN	wynik
▶	33.933333296	1.349999986	118.399999984	103.983333294	3863.9063587...

H)

Result Grid	
	opis
▶	EDDM:MUC:MUNICH:GERMANY:48:21:13:N:11:47:9:E

I)

Result Grid										
	x	y	rozciaglosc							
▶	82	89	171							

Result Grid										
	miasto	kraj	longitudeMinuty	longitudeStopnie	longitudeSekundy	kierunekLongitude	latitudeMinuty	latitudeStopnie	latitudeSekundy	kierunek
▶	ALERT	CANADA	16	62	50	W	31	82	4	N
*	STEPHEN'S ISLAND	NEW ZEALAND	0	0	0	E	59	89	59	S

$$82+89=171$$

Result Grid		Filter
	rozdiagloscKM	
▶	19015.2	

J)

2.1

USE airportdb;

DROP TABLE airports_statistics;

SET FOREIGN_KEY_CHECKS = 0;

CREATE TABLE airports_statistics(

kodICAO varchar(4) NOT NULL,

-- FOREIGN KEY (kodICAO) REFERENCES airports(kodICAO), //nie działa import przy kluczu obcym, struktura tabeli prawidłowa (eer)

pasazerowie INT,

ladowania VARCHAR(10)

);

SELECT * FROM airports_statistics;

-- b

drop view v_icao_nazwa_ladowania_i_starty;

CREATE VIEW v_icao_nazwa_ladowania_i_starty AS SELECT airports.kodICAO, nazwa, ladairportsowania FROM airports

JOIN airports_statistics s ON s.ladowania where airports.kodICAO=s.kodICAO order by s.ladowania desc ;

select*from airports;

select * from v_icao_nazwa_ladowania_i_starty;

drop view v_icao_nazwa_ladowania_i_starty ;

-- a

drop view v_icao_nazwa_pasazerowie;

```
CREATE VIEW v_icao_nazwa_pasazerowie AS SELECT airports.kodICAO, nazwa, pasazerowie FROM airports
```

```
JOIN airports_statistics s ON s.pasazerowie where airports.kodICAO=s.kodICAO order by s.pasazerowie desc ;
```

```
select * from v_icao_nazwa_pasazerowie;
```

```
-- c
```

```
SELECT kodICAO from v_icao_nazwa_pasazerowie where kodICAO like "E%" ;
```

```
SELECT kodICAO from v_icao_nazwa_ladowania_i_starty where kodICAO like "E%";
```

```
-- w obu sa lotniska z europy
```

```
-- d
```

```
select @x:= sum(pasazerowie) from v_icao_nazwa_pasazerowie;
```

```
select @y:= pasazerowie from v_icao_nazwa_pasazerowie where nazwa="CAPITAL";
```

```
select @procent:=@y/@x*100 as procentPasazerowie;
```

```
select @x:= sum(ladowania) from v_icao_nazwa_ladowania_i_starty;
```

```
select @y:= ladowania from v_icao_nazwa_ladowania_i_starty where kodICAO="KORD";
```

```
select @procent:=@y/@x*100 as procentLadowania;
```

```
-- e
```

```
SELECT @x:=count(kodICAO) as "lotniska USA, widok pasazerowie" from v_icao_nazwa_pasazerowie where kodICAO like "K%";
```

```
SELECT @y:=count(kodICAO) as "lotniska USA, widok ladowania" from v_icao_nazwa_ladowania_i_starty where kodICAO like "K%";
```

```
-- f
```

```
select @x:= sum(pasazerowie) from v_icao_nazwa_pasazerowie;
```

```
select @y:= @x/4000000000*100 as procentPasazerow;
```

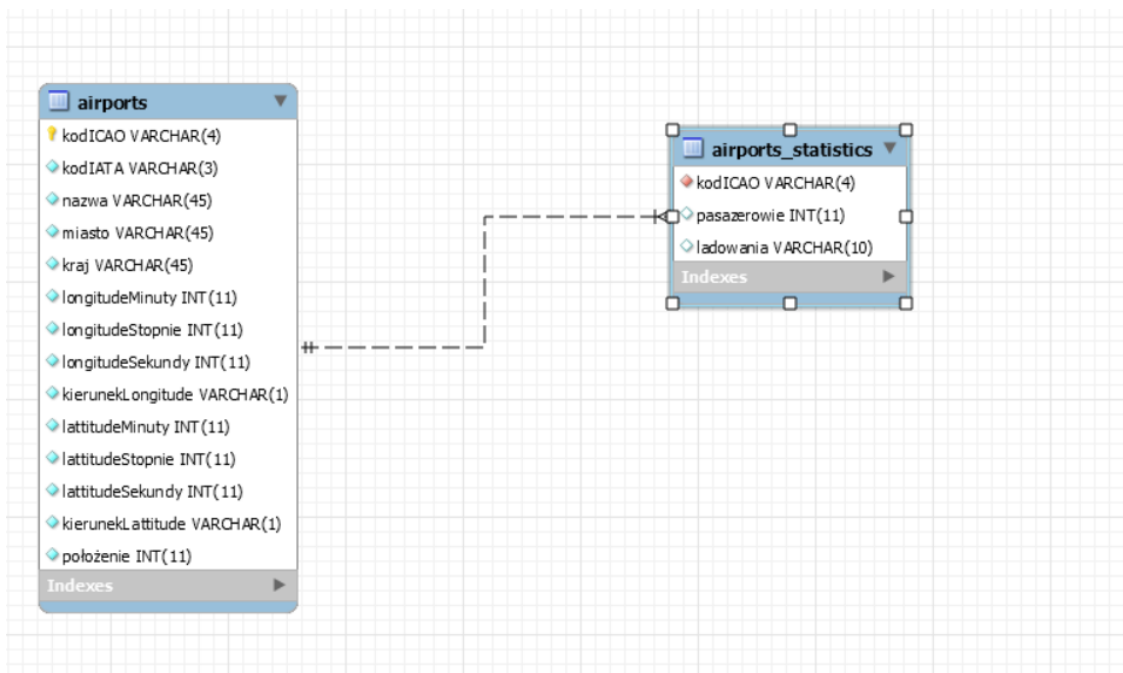
```
-- g
```

```
SELECT @x:= pasazerowie from v_icao_nazwa_pasazerowie where kodICAO like "KATL";
```

```
SELECT @y:= 107394029/@x*100 AS ZMIANA;
```

2.2

Mimo dobrej struktury tabel (screen poniżej), import nie działa (importuje 0 elementów) , gdy użyję w tabeli klucza obcego. Zadania zrobione bez użycia FOREIGN KEY.



A)

Result Grid			
Filter Rows: <input type="text"/>			
Export: <input type="button" value="Export"/>			
Wrap Cell Contents: <input type="button" value="Wrap"/>			
	kodICAO	nazwa	pasazerowie
▶	KATL	THE WILLIAM B HARTSFIELD ATLANTA INTERN...	103902992
	KORD	CHICAGO OHARE INTERNATIONAL	79828183
	LFPG	CHARLES DE GAULLE	69471442
	EHAM	SCHIPHOL	68515425
	KDFW	DALLAS FORT WORTH INTERNATIONAL	67092194
	LTBA	ATATURK	63859785
	KDEN	DENVER INTERNATIONAL	61379396
	KJFK	JOHN F KENNEDY INTERNATIONAL	59392500
	KSFO	SAN FRANCISCO INTERNATIONAL	55822129
	LEMD	BARAJAS	53386075
	KLAS	MC CARRAN INTERNATIONAL	48566803
	LEBL	BARCELONA	47262826
	CYYZ	LESTER B PEARSON INTERNATIONAL	47054696
	KSEA	SEATTLE TACOMA INTERNATIONAL	46934194
	KCLT	CHARLOTTE DOUGLAS INTERNATIONAL	45909899
	EGKK	GATWICK	45561694
	MMMX	LICENCIADO BENITO JUAREZ INTERNATIONAL	44732418
	EDDM	MUNICH	44577241
	KMCO	ORLANDO INTERNATIONAL	44511265
	KMIA	MIAMI INTERNATIONAL	44071313
	KPHX	PHOENIX SKY HARBOR INTERNATIONAL	43921670
	KEWR	NEWARK LIBERTY INTERNATIONAL	43393499

v_icao_nazwa_pasazerowie 3 x

B)

Result Grid			
	kodICAO	nazwa	ladowania
▶	KATL	THE WILLIAM B HARTSFIELD ATLANTA INTERN...	879560
	KORD	CHICAGO OHARE INTERNATIONAL	867049
	KDFW	DALLAS FORT WORTH INTERNATIONAL	654344
	KDEN	DENVER INTERNATIONAL	574966
	KCLT	CHARLOTTE DOUGLAS INTERNATIONAL	553817
	KLAS	MC CARRAN INTERNATIONAL	482676

C)

Result Grid	
	kodICAO
▶	EHAM
	EGKK
	EDDM

Na obu są lotniska z Europy.

D)

Result Grid	
	procentPasazerowie
▶	3.990071500

Result Grid	
	procentLadowania
▶	18.809346697410724

E)

Result Grid	
	lotniska USA, widok ladowania
▶	6

Result Grid	
	lotniska USA, widok pasazerowie
▶	14

F)

Result Grid	
	procentPasazerow
▶	60.015491300

Result Grid	
	ZMIANA
▶	4.473596100

G)