

Assignment Part 2: Designing a Database for Commonwealth Transport Services

ASSIGNMENT TITLE: MYSQL Database Creation & Required Query Identifications

Group ID		
Student 1	s-number:	Full name:
Student 2	s-number:	Full name:
Student 3	s-number:	Full name:
Course Code:		Workshop/Lab day & time:
Tutor's name:		Date submitted:

Marks obtained: _____. [For marker to fill up.]

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Declaration

Except where appropriately acknowledged, this assignment is our own work, has been expressed in our own words and has not previously been submitted for assessment. We have also retained a copy of this assessment piece for our own records.

Student 1:	Student 2:	Student 3:
Name: _____	Name: _____	Name: _____
Signature: _____	Signature: _____	Signature: _____
Date: _____	Date: _____	Date: _____

Note: All students in the group must sign this first page, scan the signed page, and then place at the beginning of the assignment.

Table of Contents

PLAGIARISM	1
Table of Contents	Error! Bookmark not defined.
List of Illustrations	2
Acknowledgements:	2
Reports on SQL Queries in Task 3	3
Bibliography [Optional]	5

List of Illustrations

Query Output Tables:	3
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Acknowledgements:

[List names of staff and students you have discussed with about this assessment.]

- 1)
- 2)
- 3)

Reports on SQL Queries in Task 3

Query 1:

```
SELECT make,model,registration,pssngr_capacity
FROM VEHICLE
WHERE availability='YES' ORDER BY pssngr_capacity ASC;
```

Output table:

make	model	registration	pssngr_capacity
Audi	A1	973 OML	3
Volvo	XC90 Premium	459 ABC	4
Toyota	Camry	297 JMB	5
Honda	Odyssey	510 RAK	7

Query 2:

```
SELECT *
FROM LOCATION
WHERE start_streetName like '% %d' OR end_streetName like'% %d';
```

Output table:

id	location	start_streetNo	start_streetName	start_suburb	start_state	start_postalCode	end_streetNo	end_streetName	end_suburb	end_state	end_postalCode
4	4	1	Airport Road	texie	Arizona	11165	23D	1st Lane	Gracius	Arizona	1432H
3	3	23D	1st Lane	Gracius	Arizona	1432H	4	Temple Road	Reeves	Arizona	1476J
1	1	23D	1st Lane	Gracius	Arizona	1432H	4	Temple Road	Reeves	Arizona	1476J

Query 3:

Country & Language in Understandable English >>>>

```
SELECT OFFICIAL.name, COUNTRY.country, LANGUAGE.language
FROM OFFICIAL
INNER JOIN COUNTRY on COUNTRY.cn_code = OFFICIAL.country
INNER JOIN LANGUAGE on LANGUAGE.ln_code = OFFICIAL.preffered_lng
ORDER BY OFFICIAL.name;
```

Country & Language in ISO format >>>>

```
SELECT name, country, preffered_lng
FROM OFFICIAL
ORDER BY name;
```

Output table:

name ▲ 1	country	language
Don Ruksh	China	Chinese
Jake boi	Australia	English
Joey Tribbiani	India	Hindi
Prathap Costa	France	French
Rose Miller	Germany	German

Figure 1: Country & Language in Understandable English

name ▲ 1	country	preferred_Ing
Don Ruksh	CN	ZH
Jake boi	AU	EN
Joey Tribbiani	IN	HI
Prathap Costa	FR	FR
Rose Miller	DE	DE

Figure 2: Country & Language in ISO format

Query 4:

```
SELECT MAINTANANCE_REPAIR.date, VEHICLE.registration, VEHICLE.make, VEHICLE.model
FROM MAINTANANCE_REPAIR
INNER JOIN VEHICLE on VEHICLE.vin = MAINTANANCE_REPAIR.vehicle_vin
WHERE MAINTANANCE_REPAIR.nature='M' AND date IN (SELECT max(date) FROM
MAINTANANCE_REPAIR);
```

Output table:

date	registration	make	model
2020-06-11	918 YYH	Ford	Transit Luton

Query 5:

```
SELECT name, travelled_kms
FROM DRIVER
WHERE travelled_kms>1000
ORDER BY travelled_kms ASC;
```

Output table:

name	travelled_kms ▲ 1
Pitt Grey	2500
Brad Jey	5000
Mike Payoe	10000

Query 6:

```
SELECT VEHICLE.registration, VEHICLE.make, VEHICLE.model, MAINTANANCE_REPAIR.cost
FROM MAINTANANCE_REPAIR
INNER JOIN VEHICLE on VEHICLE.vin = MAINTANANCE_REPAIR.vehicle_vin
WHERE nature='R'
HAVING cost > avg(cost) IN (select avg(cost) from maintanance_repair WHERE nature='R');
```

Output table:

registration	make	model	cost
510 RAK	Honda	Odyssey	100

Query 7:

```
SELECT OFFICIAL.name, OFFICIAL_ROLE.role
FROM OFFICIAL_ROLE
INNER JOIN OFFICIAL on OFFICIAL.official = OFFICIAL_ROLE.official_id
WHERE NOT EXISTS (SELECT * FROM TRIP WHERE OFFICIAL_ROLE.official_id =
TRIP.official);
```

Output table:

name	role
Chandler Bing	Assistant Coach

Query 8:

```
SELECT vehicle_vin, sum(cost) as total , nature
FROM MAINTANANCE_REPAIR
GROUP BY vehicle_vin,nature
ORDER BY total DESC
LIMIT 2;
```

Output table:

vehicle_vin	total	▼ 1	nature
HONDAN33345678GANB	124.5		R
FORDAN59105678TORH	110		M

Bibliography [Optional]

1. Course Material
2. <https://gist.github.com/bradtraversy/c831baaad44343cc945e76c2e30927b3>
3. <https://stackoverflow.com>