DATA ANALYTICS R	EFERENCE DOCUMENT
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Student:	Gerhard van der Linde

REVISION HISTORY

Revision	Details of Modification(s)	Reason for modification	Date	Ву
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Applied Databases - Week 2

1. Get school.sql from Moodle and import it into MySQL.

- Right Click and select "save as"
- mysql -u root -p <school.sql

2. What is the maximum length of data that can be inserted into the Name attribute of the subject table?

3. What is the Primary Key of the teacher table?

Field	+ Type	Null	Key	Default	
tid Name level experience dob	int(11) varchar(20) enum('J','L')	NO YES YES YES YES	PRI 		auto_increment

```
5 rows in set (0.00 sec)
```

4. What is the Primary Key of the subject table?

```
mysql> describe subject;
+----+
| Field | Type | Null | Key | Default | Extra |
+----+
| OnLeavingCert | tinyint(1) | YES |
+----+
3 rows in set (0.00 sec)
```

5. Show all data contained in the subject table.

```
mysql> select * from subject;
| Name | Teacher | OnLeavingCert |
+----+
| Biology | Mr. Pasteur | 1 |
| Colouring | Mr. Picasso |
| English | Mr. Kavanagh |
| French | Ms. Dubois |
| Maths | Mr. Hawking |
| Religion | Fr. Lynch |
                                   1 1
| Spelling | Ms.
Smith | 0 |
+----+
7 rows in set (0.00 sec)
```

6. Show all names of all subjects that are on the leaving cert.

```
mysql> select * from subject
-> where OnLeavingCert = '1';
+----+
| Name | Teacher | OnLeavingCert |
+----+
| Biology | Mr. Pasteur |
| English | Mr. Kavanagh |
| French | Ms. Dubois |
| Maths | Mr. Hawking |
| Religion | Fr. Lynch |
+----+
5 rows in set (0.00 sec)
```

7. Show all name and experience of all teachers who are qualified to teach to Leaving Cert.

8. Show all details of all subjects who are taught by teachers whose title is not "Mr."

9. Show all details of all teachers who were born in January, February or March, and who can teach as far as Junior Cert only.

10. Show all unique month names that teachers were born in.

```
mysql> SELECT distinct month(dob) mon FROM school.teacher;
+----+
| mon |
+----+
| 2 |
| 9 |
| 3 |
| 11 |
+----+
4 rows in set (0.00 sec)
```

11. Show all details of all teachers, sorted by first by experience, then level.

12. Show all details of all subjects whose 3rd or 4th letter is "I". Sort them by name.

13. Show the name of all teachers who have 10, 15, 20, 25, 30, 35, 40, 45, 50, 55 or 60 years experience. Sort from youngest to oldest.

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