Test task_PHP Developer

1) Write a script that will give out any amount in words, e. g. 2355 = two thousand three hundred fifty five.

Tools and instruments: PHP

2) Write a script for the file and text search (text search inside the files). Use regular expressions.

Requirements:

• Search form: file name, ‘text search’ checkbox (when the checkbox is ticked off, the additional ‘text search’ field is displayed)

• Search in current directory

• Use *, ?* masks for both file and text search Tools and instruments: PHP, regular expressions 3) Create a Singleton class that controls the connection to the data storage. Various connection options such as an array, a DSN string, and an xml-file should be provided. Use the PHP

ADOdb library for this task. As a result, the ADOdb object should be created.

Tools and instruments: PHP OOP, PHP ADOdb 4) See two tables below:

CREATE TABLÈManufacturers` (

ìdìnt(11) NOT NULL AUTO_INCREMENT,

`namè varchar(30) NOT NULL,

PRIMARY KEY (ìd`)

) ENGINE=InnoDB

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| id | name |

+----+--------------------+

| 1 | CDEF Manufacturing |

| 2 | Dell Ltd |

| 3 | JDF Ltd |

| 4 | Motor inc |

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CREATE TABLÈparts` (

ìdìnt(11) NOT NULL AUTO_INCREMENT,

`namè varchar(30) NOT NULL,

`man_idìnt(11) NOT NULL,

PRIMARY KEY (ìd`)

) ENGINE=InnoDB

+----+-----------------+--------+

| id | name | man_id |

+----+-----------------+--------+

| 1 | DVD burner | 1 |

| 2 | Laptop | 2 |

| 3 | Power supply | 2 |

| 4 | Display adapter | 3 |

| 5 | Network hub | 1 |

| 6 | Sound card | 3 |

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Create the following queries:

• Extract the identifiers, names of the manufacturers and the corresponding component parts for *Del Ltd*, *JDF Ltd*.

• Extract the names and identifiers of the manufacturers the component parts of which are not specified.

• Change the identifier for *CDEF Manufacturing* from 1 to 5 and identifiers of the component parts that correspond to this manufacturer (with one query).

• Remove the *JDF Ltd* entry and the corresponding component parts (with one query).

• Has the following query been made in the optimum way?

SELECT p.name,m.name from parts p INNER JOIN Manufacturers m ON

p.man_id=m.id ORDER BY p.name DESC

If not, what should be done for its optimization?

6)

See the following table:

CREATE TABLÈquiz_answers` (

`q_idìnt(11) NOT NULL AUTO_INCREMENT,

ìdìnt(11) NOT NULL,

`to_widget_user_id` char(20) NOT NULL,

`to_widget_user_namè varchar(64) NOT NULL,

`dateìnt(11) NOT NULL,

`questionìnt(11) NOT NULL,

ànswer` tinyint(2) NOT NULL,

ùnlocked` tinyint(1) DEFAULT NULL,

`site_id` tinyint(3) unsigned NOT NULL DEFAULT '0', PRIMARY KEY (`q_id`),

UNIQUE KEY ànswer`

(ìd`,`to_widget_user_id`,`question`,ànswer`,`site_id`)

) ENGINE=InnoDB

Has the fol owing query been made in the optimum way?

If not, what should be done for its optimization?

select count(*) from quiz_answers where to_widget_user_id=100001804947780 and site_id=35;

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| id | select_type | table | type | possible_keys | key | key_len

| ref | rows | Extra |

+----+-------------+--------------+-------+---------------+--------+---------

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| 1 | SIMPLE | quiz_answers | index | NULL | answer | 70

| NULL | 2140440 | Using where; Using index |

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