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harj_liipaisimet_yms_v2.pdf

Task 1

```
▷ Run|New Tab
CREATE TRIGGER uusitt
AFTER INSERT ON employee
FOR EACH ROW
INSERT INTO ttloki (`EmployeeID`, `LogTime`) VALUES (NEW.`EmployeeID`, NOW()); 43ms
```



The SHOW CREATE TRIGGER statement shows the name of the trigger, the trigger body, as well as some other information such as the time the trigger was created.

Task 2

```
⊳ Run|New Tab
CREATE EVENT tyontekijalaskuri
ON SCHEDULE EVERY 1 MINUTE
DO
INSERT INTO tyontekijalaskuri (`TimeStamp`, `EmployeeCount`) VALUES (NOW(), (SELECT COUNT(*) FROM employee));
```

The event triggers every minute, and logs the current timestamp and the number of employees.

Task 3

One row size:

- 4 bytes int(11)
- 4 bytes timestamp

Total: 8 bytes

```
1Gb = 1024Mb = 1024 * 1024 Kb = 1024 * 1024 * 1024 bytes
1024 * 1024 * 1024 / 8 = 134,217,728 rows
```

Row is created every minute, so it takes 134,217,728 minutes to get to 1Gb.

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```
134,217,728 / 60 = 2,236,962 hours
2,236,962 / 24 = 93,206 days
93,206 / 365 = 255 years.
```

Task 4

```
▷ Run | New Tab
DELIMITER //

▷ Run | Copy
CREATE PROCEDURE hae_palkka(IN tyontekija INT)
BEGIN
SELECT `Salary` FROM employee WHERE `EmployeeID` = tyontekija;
END //

▷ Run | New Tab
DELIMITER ;
```

```
⊳ Run|New Tab
CALL hae_palkka(10); 2ms
```

When the procedure is called, it will select the salary of the employee with the given ID and return it. If the employee does not exist, it will return nothing.