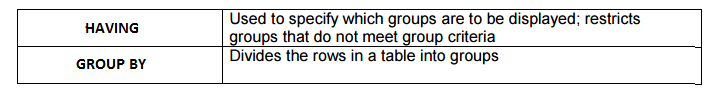
**Asiqul Hoque**

**Section 5 Lesson 1: Using GROUP BY and HAVING Clauses**

****

**1. In the SQL query shown below, which of the following is true about this query?**

**\_\_T\_\_\_\_\_ a. Kimberly Grant would not appear in the results set.**

**\_\_\_F\_\_\_\_ b. The GROUP BY clause has an error because the manager\_id is not listed in**

**the SELECT clause.**

**\_\_\_T\_\_\_\_ c. Only salaries greater than 16001 will be in the result set.**

**\_\_\_T\_\_\_\_ d. Names beginning with Ki will appear after names beginning with Ko.**

**\_\_\_F\_\_\_\_ e. Last names such as King and Kochhar will be returned even if they don’t**

**have salaries > 16000.**

**SELECT last\_name, MAX(salary)**

**FROM employees**

**WHERE last\_name LIKE 'K%'**

**GROUP BY manager\_id, last\_name**

**HAVING MAX(salary) >16000**

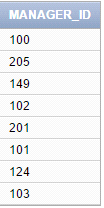
**ORDER BY last\_name DESC ;**

**2A. SELECT manager\_id**

**FROM employees**

**WHERE salary < 16000**

**GROUP BY manager\_id;**

****

**2B. SELECT COUNT(title)**

**FROM d\_cds**

**WHERE cd\_number < 93;**

****

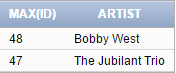
**2C. SELECT MAX(ID), artist AS Artist**

**FROM d\_songs**

**WHERE duration IN('3 min', '6 min', '10 min')**

**HAVING MAX(ID)<50**

**GROUP BY ARTIST;**

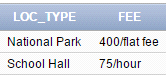
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**2D. SELECT loc\_type, rental\_fee AS Fee**

**FROM d\_venues**

**WHERE id <100**

**GROUP BY rental\_fee,loc\_type;**

****

**3. SELECT MAX(DISTINCT song\_id)**

**FROM d\_track\_listings**

**WHERE track IN ( 1, 2, 3);**

****

**4. Indicate True or False**

**\_\_\_T\_\_ a. If you include a group function and any other individual columns in a SELECT**

**clause, then each individual column must also appear in the GROUP BY**

**clause.**

**\_\_F\_\_\_ b. You can use a column alias in the GROUP BY clause.**

**\_\_T\_\_\_ c. The GROUP BY clause always includes a group function.**

**5.Write a query that will return both the maximum and minimum average salary grouped by**

**department from the employees table.**

SELECT ROUND(MAX(AVG(SALARY))), MIN(AVG(SALARY))

FROM employees

GROUP by department\_id;

****

**6. SELECT AVG(MAX(salary)) As "Maximum Average Salary"**

**FROM EMPLOYEES**

**GROUP BY DEPARTMENT\_ID;**

****