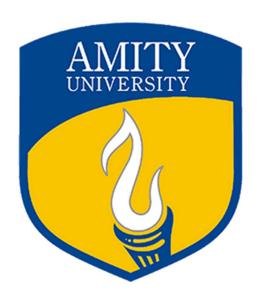# B.TECH. (2020-24)
Artificial Intelligence

Lab File
on
DATABASE MANAGEMENT SYSTEMS
[CSE201]

Submitted To
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DBMS LAB 3
SQL Queries

1. Write a query in SQL to display the last name and job title of all employees who do not have a manager

SQL Query

```
SELECT last_name,job_id
FROM employees
WHERE manager_id IS NULL;
```

OUTPUT

LAST_NAME	JOB_ID
King	AD_PRES

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2. Write a query in SQL to display the last name, salary, and commission of all employees who earn commissions. Sort data in descending order of salary and commissions.

SQL Query

```
SELECT last_name, salary, commission_pct
FROM employees
WHERE commission_pct IS NOT NULL
ORDER BY salary DESC, commission_pct DESC;
```

OUTPUT

LAST_NAME	SALARY	COMMISSION_PCT
Russell	14000	.4
Partners	13500	.3
Errazuriz	12000	.3
Ozer	11500	.25
Cambrault	11000	.3
Abel	11000	.3
Vishney	10500	.25
Zlotkey	10500	.2
King	10000	.35
Tucker	10000	.3
Bloom	10000	.2
Fox	9600	.2
Sully	9500	.35
Bernstein	9500	.25
Greene	9500	.15
McEwen	9000	.35
Hall	9000	.25
Hutton	8800	.25
Taylor	8600	.2
Livingston	8400	.2
Smith	8000	.3
Olsen	8000	.2
Doran	7500	.3
Cambrault	7500	.2
Smith	7400	.15
Bates	7300	.15

LAST_NAME	SALARY	COMMISSION_PCT

3. Write a query in SQL that prompts the user for a manager ID and generates the employee ID, last name, salary, and department for that manager's employees. The HR department wants the ability to sort the report on a selected column.

SQL Query

```sql
SELECT e.manager_id, e.employee_id, e.last_name, salary, e.department_id, d.department_name
FROM employees e, departments d
WHERE e.manager_id = &manager_num and e.department_id = d.department_id
ORDER BY '&column';
```

INPUT

$manager\_num = 100\ and\ column = 'last\_name'$

OUTPUT

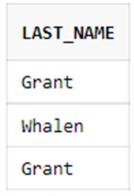| MANAGER_ID	EMPLOYEE_ID	LAST_NAME	SALARY	DEPARTMENT_ID	DEPARTMENT_NAME
100	148	Cambrault	11000	80	Sales
100	102	De Haan	17000	90	Executive
100	147	Errazuriz	12000	80	Sales
100	121	Fripp	8200	50	Shipping
100	201	Hartstein	13000	20	Marketing
100	122	Kaufling	7900	50	Shipping
100	101	Kochhar	17000	90	Executive
100	124	Mourgos	5800	50	Shipping
100	146	Partners	13500	80	Sales
100	114	Raphaely	11000	30	Purchasing
100	145	Russell	14000	80	Sales
100	123	Vollman	6500	50	Shipping
100	120	Weiss	8000	50	Shipping
100	149	Zlotkey	10500	80	Sales

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14 rows selected.

4. Write a query in SQL to Display all employee last names in which the third letter of the name is a.

SQL Query

```sql
SELECT last_name
FROM employees
WHERE last_name LIKE '__a%';
```

OUTPUT

LAST_NAME
Grant
Whalen
Grant

Download CSV

3 rows selected.