EMPLOYEE DATABASE - SELECTING DATA FROM A TABLE

- 1. Find all employees with last name as Varley
 - Select first name from employees where last name like 'Varley'
- 2. Find number of records where salaries is greater than 50000
 - Select count(0) from salaries where salary > 50000 and to date = '9999-01-01'
- 3. Find number of records where salaries is between 50000 and 70000
 - Select count(0) from salaries where salary between 50000 and 70000 and to date = '9999-01-01'
- 4. Find number of employees whose salaries are greater than 50000
 - Select count(0) from salaries where salary > 50000 and to date = '9999-01-01'
- 5. Find count of employees with last name that starts with V
 - Select first name from employees where last name like 'Varley'
- 6. Find employees with last name that starts with V but first name does not start with A
 - Select * from employees where last_name like 'V%' and first_name not like 'A%'
- 7. Find out number of employees in employees table
 - Select count(0) from employees
- 8. Find maximum salary in this company
 - Select max(salary) from salaries
- 9. Find average salary in this company
 - Select avg(salary) from salaries
- 10. List all employees who were born in March
 - Select * from employees where month(birth_date) = 3

Multiple Table Join Queries

- 1. What is the highest paid salary for the Marketing department
 - Select max(salary)
 - o from salaries, departments, dept emp
 - Where salaries.emp no = dept.emp no
 - And dept_emp.dept_no = departments.dept_no
 - And departments.dept_name = 'Marketing'
 - And dept emp.to date = '9999-01-01'
 - And salaries.to date = '9999-01-01'
- 2. Find count of employees & list of employees who work for Marketing department
 - Select count(*)
 - o from departments, dept emp
 - Where departments.dept name = 'Marketing'
 - And departments.dept no = dept emp.dept no
 - And dept emp.to date = '9999-01-01'
 - Select employees.*
 - o from departments, dept emp, employees
 - Where departments.dept name = 'Marketing'

- And departments.dept no = dept emp.dept no
- And employees.emp_no = dept_emp.emp_no
- And dept emp.to date = '9999-01-01'
- 3. Find list of employees who make more than 70000 and work in Marketing department
 - Select employees.*
 - o from salaries, departments, dept emp, employees
 - Where salaries.emp no = dept.emp no
 - And dept_emp.dept_no = departments.dept_no
 - And departments.dept_name = 'Marketing'
 - And dept emp.to date = '9999-01-01'
 - o And salaries.to date = '9999-01-01'
 - And salaries.salary > 70000
 - And dept emp.emp no = employees.emp no
- 4. Show employee name and title of all employees who were born in December
 - Select e.first name, e.last name, t. title
 - o From employees e, titles t
 - Where e.emp no = t.emp no
 - o And t.to date = '9999-01-01'
 - And month(e.birth date) = 12
- 5. List all employees who belong to Marketing Department and have last name as S
 - Select employees.*
 - o from departments, dept emp, employees
 - Where departments.dept name = 'Marketing'
 - And departments.dept no = dept emp.dept no
 - o And employees.emp no = dept emp.emp no
 - o And dept emp.to date = '9999-01-01'
 - And employees.last name like 'S%'
- 6. Three table join Find the name of the current manager of each department
 - Select departments.dept_no, dept_manager.from_date, employees.first_name as "Manager First Name", employees.last_name "Manager Last Name"
 - o from departments, dept_manager, employees
 - Where departments.dept_name = 'Marketing'
 - And departments.dept no = dept manager.dept no
 - And employees.emp no = dept manager.emp no
 - o And dept_manager.to_date = '9999-01-01'

Group by

- 1. What is the highest paid salary in each department
 - Select d.dept no, d.dept name, max(s.salary)
 - o From salaries s, dept emp de, departments d
 - Where s.emp no = d.emp no
 - And de.dept no = d.dept no
 - o And dept emp.to date = '9999-01-01'

- o And salaries.to date = '9999-01-01'
- o Group by d.dept no, d.dept name
- 2. Show count of employees by each title
 - Select t. title, count(*)
 - o From employees e, titles t
 - o Where e.emp_no = t.emp_no
 - And t.to date = '9999-01-01'
- 3. Show count of employees by each title for the Marketing department
 - Select t. title, count(*)
 - From employees e, titles t, dept_emp de, departments d
 - Where e.emp no = t.emp no
 - And d.dept no = de.dept no
 - And e.emp no = de.emp no
 - And d.dept name = 'Marketing'
 - o And de.to_date = '9999-01-01'
 - o And t.to _date = '9999-01-01'
- 4. Which manager manages highest number of employees?
 - Select departments.dept_name, manager.first_name as "Manager First Name", manager.last_name "Manager Last Name", count(*)
 - o from departments, dept_manager, employees manager, employees, dept_emp
 - Where departments.dept_no = dept_manager.dept_no
 - And manager.emp no = dept manager.emp no
 - And employees.emp no = dept emp.emp no
 - And dept emp.dept no = departments.dept no
 - And dept manager.to date = '9999-01-01'
 - o And dept emp.to date = '9999-01-01'
 - Group by departments.dept name, manager.first name, manager.last name