**Assignment 1**

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Q1.

Ans: SELECT FIRST\_NAME AS WORKER\_NAME FROM Worker;

Q2.

Ans: SELECT FIRST\_NAME FROM Worker;

Q3.

Ans: SELECT DISTINCT DEPARTMENT FROM Worker;

Q4.

Ans: SELECT LEFT(FIRST\_NAME, 3) FROM Worker;

Q5.

Ans: SELECT INSTR(FIRST\_NAME, 'a') FROM Worker WHERE FIRST\_NAME = 'Amitabh';

Q6.

Ans: SELECT RTRIM(FIRST\_NAME) FROM Worker;

Q7.

Ans: SELECT LTRIM(DEPARTMENT) FROM Worker;

Q8.

Ans: SELECT DEPARTMENT, LENGTH(DEPARTMENT) FROM (SELECT DISTINCT DEPARTMENT FROM Worker) AS UniqueDepartments;

Q9.

Ans: SELECT REPLACE(FIRST\_NAME, 'a', 'A') FROM Worker;

Q10.

Ans: SELECT CONCAT(FIRST\_NAME, ' ', LAST\_NAME) AS COMPLETE\_NAME FROM Worker;

Q11.

Ans: SELECT \* FROM Worker ORDER BY FIRST\_NAME ASC;

Q12.

Ans: SELECT \* FROM Worker ORDER BY FIRST\_NAME ASC, DEPARTMENT DESC;

Q13.

Ans: SELECT \* FROM Worker WHERE FIRST\_NAME IN ('Vipul', 'Satish');

Q14.

Ans: SELECT \* FROM Worker WHERE FIRST\_NAME NOT IN ('Vipul', 'Satish');

Q15.

Ans: SELECT \* FROM Worker WHERE DEPARTMENT = 'Admin';

Q16.

Ans: SELECT \* FROM Worker WHERE FIRST\_NAME LIKE '%a%';

Q17.

Ans: SELECT \* FROM Worker WHERE FIRST\_NAME LIKE '%a';

Q18.

Ans: SELECT \* FROM Worker WHERE FIRST\_NAME LIKE '\_\_\_\_\_h';

Q19.

Ans: SELECT \* FROM Worker WHERE SALARY BETWEEN 100000 AND 500000;

Q20.

Ans: SELECT \* FROM Worker WHERE JOINING\_DATE BETWEEN '2014-02-01' AND '2014-02-28';

Q21.

Ans: SELECT COUNT(\*) FROM Worker WHERE DEPARTMENT = 'Admin';

Q22.

Ans: SELECT FIRST\_NAME FROM Worker WHERE SALARY BETWEEN 50000 AND 100000;

Q23.

Ans: SELECT DEPARTMENT, COUNT(\*) AS NumWorkers FROM Worker GROUP BY DEPARTMENT

ORDER BY NumWorkers DESC;

Q24.

Ans: SELECT \* FROM Worker WHERE WORKER\_ID IN (SELECT WORKER\_REF\_ID FROM Title WHERE WORKER\_TITLE = 'Manager');

Q25.

Ans: SELECT FIRST\_NAME, LAST\_NAME, COUNT(\*) FROM Worker GROUP BY FIRST\_NAME,

LAST\_NAME HAVING COUNT(\*) > 1;

Q26.

Ans: SELECT \* FROM Worker WHERE MOD(WORKER\_ID, 2) <> 0;

Q27.

Ans: SELECT \* FROM Worker WHERE MOD(WORKER\_ID, 2) = 0;

Q28.

Ans: CREATE TABLE WorkerClone AS SELECT \* FROM Worker;

Q29.

Ans: SELECT \* FROM Worker INTERSECT SELECT \* FROM WorkerClone;

Q30.

Ans: SELECT \* FROM Worker WHERE WORKER\_ID NOT IN (SELECT WORKER\_ID FROM WorkerClone);

Q31.

Ans: SELECT NOW();

Q32.

Ans: SELECT \* FROM Worker ORDER BY WORKER\_ID LIMIT 10;

Q33.

Ans: SELECT DISTINCT SALARY FROM Worker ORDER BY SALARY DESC LIMIT 1 OFFSET 4;

Q34.

Ans: SELECT SALARY FROM Worker W1 WHERE 4 = (SELECT COUNT(DISTINCT SALARY) FROM Worker

W2 WHERE W2.SALARY > W1.SALARY);

Q35.

Ans: SELECT \* FROM Worker W1 WHERE EXISTS (SELECT 1 FROM Worker W2 WHERE W1.SALARY =

W2.SALARY AND W1.WORKER\_ID <> W2.WORKER\_ID);

Q36.

Ans: SELECT MAX(SALARY) FROM Worker WHERE SALARY < (SELECT MAX(SALARY) FROM Worker);

Q37.

Ans: SELECT \* FROM Worker WHERE WORKER\_ID = 1 UNION ALL SELECT \* FROM Worker WHERE WORKER\_ID = 1;

Q38.

Ans: SELECT \* FROM Worker W INNER JOIN WorkerClone WC ON W.WORKER\_ID = WC.WORKER\_ID; Q39.

Ans: SELECT \* FROM Worker ORDER BY WORKER\_ID LIMIT (SELECT COUNT(\*)/2 FROM Worker);

Q40.

Ans: SELECT DEPARTMENT FROM Worker GROUP BY DEPARTMENT HAVING COUNT(\*) < 5;

Q41.

Ans: SELECT DEPARTMENT, COUNT(\*) AS NumWorkers FROM Worker GROUP BY DEPARTMENT;

Q42.

Ans: SELECT \* FROM Worker ORDER BY WORKER\_ID DESC LIMIT 1;

Q43.

Ans: SELECT \* FROM Worker ORDER BY WORKER\_ID LIMIT 1;

Q44.

Ans: SELECT \* FROM Worker ORDER BY WORKER\_ID DESC LIMIT 5;

Q45.

Ans: SELECT DEPARTMENT, FIRST\_NAME, LAST\_NAME FROM Worker W WHERE SALARY = (SELECT

MAX(SALARY) FROM Worker W1 WHERE W1.DEPARTMENT = W.DEPARTMENT);

Q46.

Ans: SELECT DISTINCT SALARY FROM Worker ORDER BY SALARY DESC LIMIT 3;

Q47.

Ans: SELECT DISTINCT SALARY FROM Worker ORDER BY SALARY ASC LIMIT 3;

Q48.

Ans: SELECT DISTINCT SALARY FROM Worker ORDER BY SALARY DESC LIMIT 1 OFFSET n-1;

Q49.

Ans: SELECT DEPARTMENT, SUM(SALARY) AS TotalSalary FROM Worker GROUP BY DEPARTMENT;

Q50.

Ans: SELECT FIRST\_NAME, LAST\_NAME FROM Worker WHERE SALARY = (SELECT MAX(SALARY) FROM Worker);