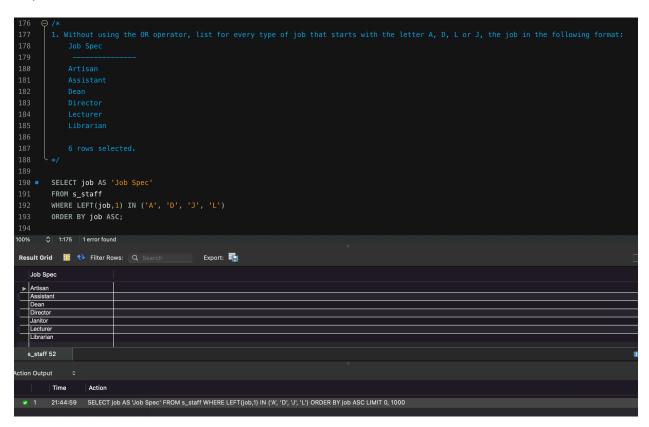
## Creating tables and inserting values

## Q1)



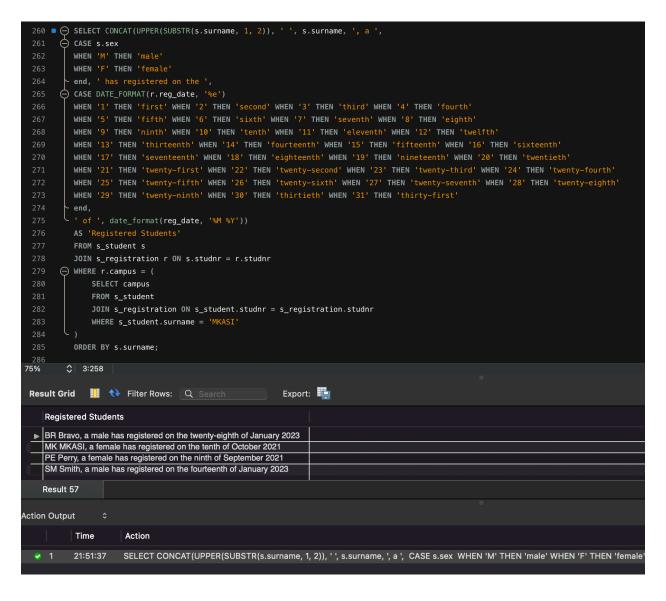
```
⊝ /* 2. Select for every type of job, the average annual salary in the format as seen below.
                               AVG_ANN_SAL
                                $0057000.00
         LECTURER
                                $0089600.00
                                $0132000.00
                                $0162000.00
         DIRECTOR
                                $0174000.00
         SPECIALIST
                                $0240000.00
 209
         SELECT job AS 'Job Spec', CONCAT('$', (AVG(salary + bonus))) AS 'AVG_ANN_SAL'
         FROM s_staff
         GROUP BY job
         HAVING AVG(salary + bonus) > 50000
         ORDER BY AVG(salary + bonus) ASC;
100%
        $ 18:193 1 error found
                                                  Export:
 Result Grid III 💎 Filter Rows: Q Search
                         AVG_ANN_SAL
    Job Spec
 ► Assistant
                         $60000.000000
                         $63500.000000
    Lecturer
    Dean
                         $68000.000000
    Result 54
Action Output
         Time
                   Action
         21:45:59
                   SELECT job AS 'Job Spec', CONCAT('$', (AVG(salary + bonus))) AS 'AVG_ANN_SAL' FROM s_staff GROUP BY job HAVING AV
```

```
SELECT d.dip_name AS 'DIPLOMA', CONCAT(s.surname, ', ', s.initials) AS 'HEAD', COUNT(*) AS 'Nr of Subjects'
                                          FROM s_diploma d
                                          JOIN s_staff s ON d.dip_head = s.staffnr
                                          JOIN s_subject su ON d.dip_code = su.dip_code
                                          GROUP BY d.dip_code
                                        ORDER BY d.dip_name;
100%
                                 $ 22:213 1 error found
                                                                                                                                                                                                                           Export:
   Result Grid ## Filter Rows: Q Search
                 DIPLOMA
                                                                                     HEAD
                                                                                                                                 Nr of Subjec...

    Algebra Faraz, MF I Artificial Intelligence Paracha, BP 2
    Modernist Literature Kashif, SK 1
    Nuclear Physics Qabii, AQ 1

              Nuclear Physics
Public Relations
               Result 55
Action Output
                                          Time
                                                                                     Action
         ▼ 1 21:47:48 SELECT d.dip_name AS 'DIPLOMA', CONCAT(s.surname, ', ', s.initials) AS 'HEAD', COUNT(*) AS 'Nr of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM s_diploma d JOIN s_staff s ON of Subjects' FROM
```

```
SELECT CONCAT('The prerequisite of ', s.subj_name, ' is ', p.subj_name) AS 'DS Requirements'
          FROM s_subject s
          JOIN s_subject p ON s.prereq = p.subj_code
         WHERE s.subj_code LIKE 'DS%';
100%
        $ 22:231
 Result Grid ## Filter Rows: Q Search
                                                    Export:
    DS Requirements
  ▶ The prerequisite of Development Software is Mathematics
   Result 56
Action Output
                    Action
          Time
          21:48:41
                    SELECT CONCAT ('The prerequisite of ', s.subj_name, ' is ', p.subj_name) AS 'DS Requirements' FROM s_subject s JOIN s_subject.
```



```
⊝ /* 6. Insert into a new table called DIP_VIEW, data using a query. After inserting,
             HEAD_OF_DIPLOMA
                                   DIPLOMA_NAME
                                                                  AVG_FEE
                                   COST AND MANAGEMENT
                                   INFORMATION TECHNOLOGY
 299
          CREATE TABLE DIP_VIEW AS
          SELECT UPPER(s_staff.surname) AS HEAD_OF_DIPLOMA, UPPER(s_diploma.dip_name) AS DIPLOMA_NAME,
          AVG(s_subject.subj_fee) AS AVG_FEE
          FROM s_staff
          JOIN s_diploma ON s_staff.staffnr = s_diploma.dip_head
          JOIN s_subject ON s_subject.dip_code = s_diploma.dip_code
          GROUP BY s_diploma.dip_code;
        $ 8:308
                                                   Export:
 Result Grid ## Tilter Rows: Q Search
    HEAD_OF_DIPLOMA DIPLOMA_NAME
                                            AVG_FEE
 ▶ FARAZ
                     ALGEBRA
                                            8250.500000
    PARACHA
                     ARTIFICIAL INTELLIGENCE
                                           8600.375000
                     MODERNIST LITERATURE
    KASHIF
                                           6300.990000
    QADIR
                     PUBLIC RELATIONS
                                            5880.400000
    QABIL
                     NUCLEAR PHYSICS
                                           8100.000000
  DIP_VIEW 58
Action Output
                    Action
          21:52:35
                   CREATE TABLE DIP_VIEW AS SELECT UPPER(s_staff.surname) AS HEAD_OF_DIPLOMA, UPPER(s_diploma.dip_name)
                   SELECT * FROM DIP_VIEW LIMIT 0, 1000
          21:52:39
```

```
Highest earning Employees
            SELECT CONCAT(initials, ' ', UPPER(surname), ', a ', job, ', earns R', ROUND(salary)) AS 'Highest Earning Employees'
            FROM s_staff
            WHERE salary IS NOT NULL
            ORDER BY salary DESC
            LIMIT 5;
           $ 21:307
                                                                                                 *
 Result Grid ## Filter Rows: Q Search
                                                               Export: Fetch rows:
     Highest Earning Employees
  ▶ MF FARAZ, a Dean, earns R63000
     AQ QABIL, a Lecturer, earns R58000
BP PARACHA, a Assistant, earns R56000
SK KASHIF, a Artisan, earns R24300
AS SALEH, a Receptionist, earns R5500
     Result 59
Action Output
             Time
                         Action
   🗸 1 21:53:43 SELECT CONCAT (initials, ' ', UPPER(surname), ', a ', job, ', earns R', ROUND(salary)) AS 'Highest Earning Employees' FROM s_staff WHERE salary IS N
```

Mikaeel Faraz Safdar 8074689
 Amine Qabil 8050910
 Muhammad Shaheer Kashif 7877146
 Muhammad Bisham Adil Paracha 7935407