Details of Examiner who are paper setter of particular subject

(1) $r_1 \leftarrow$ examiner ⋈ exam (examiner.examid = exam.examid)

⋈ Subject (exam.subjectid = subject.subjectid AND subject.SubjectName = 'Economics')

$r_2 \leftarrow \sigma_{issetter = true}(r_1)$

result $\leftarrow r_2$.

(2) Details of Schools where stream are of science.

$r_1 \leftarrow$ School ⋈ Student (school.schoolid = student.school)

⋈ stream (student.stream = stream.sid)

$r_2 \leftarrow \sigma_{stream\_Name = "Science"}(r_1)$

~~$r_2 \leftarrow \sigma$ school stream~~ | result $\leftarrow r_2$.

~~$r_1 \leftarrow$ school (σ schoolName (r1))~~

BETWEEN and LIKE are used as predicate:

- Get list of dependents who are ...
  select ...

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(2)

(3.) Detail of examiner who are supervisor of particular school.

$\gamma_1 \leftarrow$ examiner ⋈ (centers
(centers.centerid = examiner.(center)

⋈ School)
(school.schoolid = Centers.schoolid
AND school.schoolname = 'St Mary

$\gamma_2 \leftarrow \sigma_{(isSupervisor = true)}(\gamma_1)$

result $\leftarrow \gamma_2$

(4.) Count of Number of students giving exam who is male and are from commerce field

$\gamma_3 \leftarrow \mathcal{F}_{count(*)}$ (student)

$\gamma_2 \leftarrow \sigma_{(gender = m \text{ and } stream = c)}(\gamma_3$

Result $\leftarrow \gamma_2$

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(5.) How many exams conducts at particular center

$r_1 \leftarrow$ Exam $\bowtie$ conducts
(exam.examid = conducts.examid)
$\bowtie$ centers
(conducts.centerid = centers.centerid)
$\bowtie$ School
(school.schoolid = center.schoolid
AND school.schoolname = 'St mary')

$r_2 \leftarrow \gamma_{count(*)}(r_1)$

result $\leftarrow r_2$

(6) Schools which are Not centers

$r_1 \leftarrow$ School $\bowtie$ centers
(school.schoolid != centers.schoolid)

result $\leftarrow r_1$

(7) Give names of schools in gujarat which are centers.

$r_1 \leftarrow$ School ⋈ Centers
(school.schoolid = Centers.schoolid)

$r_2 \leftarrow \sigma$ (state = 'Gujarat') (r_1)

result $\leftarrow r_2$

(8) Number of students who had given re-exam and failed.

$r_1 \leftarrow$ exam ⋈ gives
(exam.examid = gives.examid AND
exam.exam_type = 'reexam')

⋈ result
(result.studentid = gives.student AND
is_pass = false);

$r_2 \leftarrow \mathcal{F}$ count (*) (r_1)

result $\leftarrow r_2$

(9)

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(9) How many student failed from commerce field.

$r_2 \leftarrow$ Student $\bowtie$ result
(result.Studentid = student.enrollment_no)

$r_2 \leftarrow r_2 \bowtie$ Stream
(Stream = sid)

$r_3 \leftarrow \sigma$ (Stream_name = 'commerce' AND is_pass = 'f') (r_2)

$r_4 \leftarrow \mathcal{G}$ count (*) (r_3)

result $\leftarrow r_4$

(10) How many Students study outside their home town

$r_1 \leftarrow$ Student $\bowtie$ School
(Student.schoolid = school.schoolid. AND Student.city != School.city)

σ (Student.city != School.city) .

Get list of dependents who are of the age between 18 years and 50
select essn, age(bdate) from company.dependent
years' AND interval '50 years'

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(6)

$r_2 \leftarrow {}_{f}\text{count}(*)\,(r_2)$

$r_{result} \leftarrow r_2$

(12) Display number of student in each centr

$r_1 \leftarrow$ student $\bowtie$ centers
(student.centr = centers.centrid)

$\bowtie$ School)
(school.schoolid = centers.schoolid)

$r_2 \leftarrow {}_{f}\text{count}(*)\,(r_1)$

$r_3 \leftarrow \Pi_{(centrid, schoolname, r_2)}(r_2)$

result $\leftarrow r_3$

(22) Give the list of Top 10 students

$r_1 \leftarrow$ student $\bowtie$ result
(student.enrollment=nu
= result.studentid)

$r_2 \leftarrow {}_{f}\text{orderby}(\text{Persntag.})\ \text{limit}\ 3$

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$r_{result} \leftarrow r_3$

(23) How many people are physically handicaped and failed in exam

$r_1 \leftarrow$ answersheet $\bowtie$ student (student.enrollment_number = answersheet.student_enrollment)

$\bowtie$ exam (exam.examid = subject.subjectid)

$\bowtie$ subject (subject.subjectid = exam.subjectid and subject_name = 'economics')

$r_2 \leftarrow$ (obtained_marks > 35 AND physical_handicap = 'Y') (r_1)

$r_{result} \leftarrow r_2$.

(24) Who got highest marks in economics

$r_2 \leftarrow$ Student ⋈ Answersheet (enrollment_No = Student enrollment)

⋈ exam (Answersheet.examid = exam.examid)

⋈ subject (exam.subject_id = subject.subject

$r_2 \leftarrow \sigma_{subjectid=3}(r_1)$ ~~orderby~~

$r_3 \leftarrow$ orderby (obtaindmarks) limit

~~$r_4 \leftarrow \Pi_{}$~~ firstname, middlename, lastname

$r_{result} \leftarrow r_4$

(25) How many boys passed in exam.

$r_1 \leftarrow$ student ⋈ result (student.enrollment = result.studentid)

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$r_2 \leftarrow \sigma$ gender = 'M' AND is_pass = 'Y' (r_1)

result $\leftarrow r_2$.

[2c) How many students are there in each school).

$r_1 \leftarrow$ Student ⋈ result (enrollment_number = student_id)

$r_2 \leftarrow \sigma$ gender ≠ 'M' and

$r_1 \leftarrow$ Student ⋈ school (school = school_id)

$r_2 \leftarrow \gamma$ count(*) (r_1)

$r_3 \leftarrow \Pi$ (school, schoolName, r_2)

result $\leftarrow r_3$

(27) Highest Running student from particular School.

$r_1 \leftarrow$ Student ⋈ School
(Student.Schoolid = School.Schoolid and Schoolname = 'ST_name')

⋈ AnswerSheet b
(Student.enrollment = enrollment number)

$r_2 \leftarrow$ (orderBy (obtained.marks) DESC Limit 1 (1))

Result $\leftarrow r_2$.

(28) Students who are absent

$r_1 \leftarrow$ Student ⋈ Answersheet
(student_enrollment = enrollment_number)

$r_2 \leftarrow r_1$

Result $\leftarrow r_2$

(19) How many student can center accomodate.

$r_2 \leftarrow$ student ⋈ centers
(student.center = center.id)

$r_2 \leftarrow$ count(*)(r_2)

result $\leftarrow r_2$

(20) count total number of students giving exam.

$r_1 \leftarrow$ count(*)(student)

result $\leftarrow r_1$