

```
CREATE TABLE AVD_BRANCHES
(BRANCH_ID NUMBER(2) CONSTRAINT AVD_BRANCHES_BRANCH_ID_PK PRIMARY KEY,
LOCATION VARCHAR(20) NOT NULL
);
```

```
CREATE TABLE AVD_COURSES
(COURSE_ID NUMBER(3) CONSTRAINT AVD_COURSES_COURSE_ID_PK PRIMARY KEY,
COURSE_TITLE VARCHAR2(30) NOT NULL
);
```

```
CREATE TABLE AVD_SUBJECTS
(SUBJECT_ID NUMBER(3) CONSTRAINT AVD_SUBJECTS_SUBJECT_ID_PK PRIMARY KEY,
SUBJECT_TITLE VARCHAR2(30) NOT NULL,
COURSE_ID CONSTRAINT AVD_SUBJECTS_COURSE_ID_FK REFERENCES
AVD_COURSES(COURSE_ID)
);
```

```
CREATE TABLE AVD_STUDENTS
(STUD_ID NUMBER(6) CONSTRAINT AVD_STUDENTS_STUD_ID_PK PRIMARY KEY,
SNAME VARCHAR2(30) NOT NULL,
GENDER CHAR(1) NOT NULL,
ADM_DATE DATE NOT NULL,
COURSE_ID NUMBER(3) CONSTRAINT AVD_STUDENTS_COURSE_ID_FK REFERENCES
AVD_COURSES(COURSE_ID) NOT NULL,
BRANCH_ID NUMBER(2) CONSTRAINT AVD_STUDENTS_BRANCHES_FK REFERENCES
AVD_BRANCHES(BRANCH_ID) NOT NULL,
MAIL_ID VARCHAR2(25) CONSTRAINT AVD_STUDENTS_MAIL_ID_UK NOT NULL UNIQUE,
PHONE NUMBER(10) CONSTRAINT AVD_STUDENTS_PHONE_UK NOT NULL UNIQUE,
CONSTRAINT AVD_STUDENTS_GENDER_CK CHECK (GENDER IN('M','F'))
);
```

```
CREATE TABLE AVD_BATCHES
(BATCH_ID NUMBER(6) CONSTRAINT AVD_BATCHES_BATCH_ID_PK PRIMARY KEY,
COMMENCED_DATE DATE NOT NULL,
BRANCH_ID CONSTRAINT AVD_BRANCHES_BRANCH_ID_FK REFERENCES
AVD_BRANCHES(BRANCH_ID) NOT NULL,
COURSE_ID CONSTRAINT AVD_BRANCHES_COURSE_ID_FK REFERENCES
AVD_COURSES(COURSE_ID) NOT NULL
);
```

```
CREATE TABLE AVD_STUD_BATCHES
(BATCH_ID CONSTRAINT AVD_STUD_BATCHES_BATCH_ID_FK REFERENCES
AVD_BATCHES(BATCH_ID),
```

```
STUD_ID CONSTRAINT AVD_STUD_BATCHES_STUD_ID_FK REFERENCES  
AVD_STUDENTS(STUD_ID),  
CONSTRAINT AVD_STUD_BATCHES_CPK PRIMARY KEY(BATCH_ID,STUD_ID)  
);
```

```
CREATE TABLE AVD_EXAMS  
(STUD_ID CONSTRAINT AVD_EXAMS_STUD_ID_FK REFERENCES AVD_STUDENTS(STUD_ID)  
NOT NULL,  
EXAM_DATE DATE NOT NULL,  
SUBJECT_ID CONSTRAINT AVD_EXAMS_SUBJECT_ID_FK REFERENCES  
AVD_SUBJECTS(SUBJECT_ID) NOT NULL,  
MARKS NUMBER(3) NOT NULL,  
CONSTRAINT AVD_EXAMS_MARKS_CK CHECK((MARKS BETWEEN -1 AND 100) )  
);  
COMMIT;
```

